FORMER GASTOWN MGP SITE
SITE NO. 915171

2020 LAB REPORTS
FOR THE GROUNDWATER COLLECTION & TREATMENT SYSTEM

All lab reports for 2020 are available.

eurofins | 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

Review your project results through TotalAccess

Have a Question? Ask The Expert

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.

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.

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

Table of Contents

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)

Case Narrative

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

Job ID: 480-165788-1

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 3.8º 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.
Project/Site: Gastown WWTP #915171

Job ID: 480-165788-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/07/20 00:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/07/20 00:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/07/20 00:54	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/07/20 00:54	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/07/20 00:54	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/07/20 00:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/07/20 00:54	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			02/07/20 00:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/07/20 00:54	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/07/20 00:54	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/07/20 00:54	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/07/20 00:54	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			02/07/20 00:54	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/07/20 00:54	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/07/20 00:54	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/07/20 00:54	1
2-Hexanone	ND		5.0	1.2	ug/L			02/07/20 00:54	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			02/07/20 00:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/07/20 00:54	1
Acetone	ND		10	3.0	ug/L			02/07/20 00:54	1
Benzene	ND		1.0	0.41	ug/L			02/07/20 00:54	1
Bromoform	ND		1.0	0.26	ug/L			02/07/20 00:54	1
Bromomethane	ND		1.0	0.69	ug/L			02/07/20 00:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/07/20 00:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/07/20 00:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/07/20 00:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/07/20 00:54	1
Chloroethane	ND		1.0	0.32	ug/L			02/07/20 00:54	1
Chloroform	ND		1.0	0.34	ug/L			02/07/20 00:54	1
Chloromethane	ND		1.0	0.35	ug/L			02/07/20 00:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/07/20 00:54	1
Cyclohexane	ND		1.0	0.18	ug/L			02/07/20 00:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/07/20 00:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/07/20 00:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/07/20 00:54	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/07/20 00:54	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/07/20 00:54	1
Methyl acetate	ND		2.5	1.3	ug/L			02/07/20 00:54	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/07/20 00:54	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/07/20 00:54	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/07/20 00:54	1
m,p-Xylene	ND		2.0	0.66	ug/L			02/07/20 00:54	1
Naphthalene	ND		1.0	0.43	ug/L			02/07/20 00:54	1
n-Butylbenzene	ND		1.0	0.64	ug/L			02/07/20 00:54	1
N-Propylbenzene	ND		1.0	0.69	ug/L			02/07/20 00:54	1
o-Xylene	ND		1.0	0.76	ug/L			02/07/20 00:54	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			02/07/20 00:54	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/07/20 00:54	1
Toluene	ND		1.0	0.51	ug/L			02/07/20 00:54	1

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

Job ID: 480-165788-1

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

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		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**	**HF**	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
Lab Sample ID: 480-165788-2
Date Collected: 01/31/20 10:40
Matrix: Wastewater
Date Received: 01/31/20 11:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		25	21	ug/L			02/07/20 01:18	25
1,1,2,2-Tetrachloroethane	ND		25	5.3	ug/L			02/07/20 01:18	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	7.8	ug/L			02/07/20 01:18	25
1,1,2-Trichloroethane	ND		25	5.8	ug/L			02/07/20 01:18	25
1,1-Dichloroethane	ND		25	9.5	ug/L			02/07/20 01:18	25
1,1-Dichloroethene	ND		25	7.3	ug/L			02/07/20 01:18	25
1,2,4-Trichlorobenzene	ND		25	10	ug/L			02/07/20 01:18	25
1,2,4-Trimethylbenzene	ND		25	19	ug/L			02/07/20 01:18	25
1,2-Dibromo-3-Chloropropane	ND		25	9.8	ug/L			02/07/20 01:18	25
1,2-Dichlorobenzene	ND		25	20	ug/L			02/07/20 01:18	25
1,2-Dichloroethane	ND		25	5.3	ug/L			02/07/20 01:18	25
1,2-Dichloropropane	ND		25	18	ug/L			02/07/20 01:18	25
1,3,5-Trimethylbenzene	ND		25	19	ug/L			02/07/20 01:18	25
1,3-Dichlorobenzene	ND		25	20	ug/L			02/07/20 01:18	25
1,4-Dichlorobenzene	ND		25	21	ug/L			02/07/20 01:18	25
2-Butanone (MEK)	ND		250	33	ug/L			02/07/20 01:18	25
2-Hexanone	ND		130	31	ug/L			02/07/20 01:18	25
4-Isopropyltoluene	ND		25	7.8	ug/L			02/07/20 01:18	25
4-Methyl-2-pentanone (MIBK)	ND		130	53	ug/L			02/07/20 01:18	25
Acetone	ND		250	75	ug/L			02/07/20 01:18	25
Benzene	**1900**		25	10	ug/L			02/07/20 01:18	25
Bromoform	ND		25	6.5	ug/L			02/07/20 01:18	25
Bromomethane	ND		25	17	ug/L			02/07/20 01:18	25
Carbon disulfide	ND		25	4.8	ug/L			02/07/20 01:18	25
Carbon tetrachloride	ND		25	6.8	ug/L			02/07/20 01:18	25
Chlorobenzene	ND		25	19	ug/L			02/07/20 01:18	25
Dibromochloromethane	ND		25	8.0	ug/L			02/07/20 01:18	25
Chloroethane	ND		25	8.0	ug/L			02/07/20 01:18	25
Chloroform	ND		25	8.5	ug/L			02/07/20 01:18	25
Chloromethane	ND		25	8.8	ug/L			02/07/20 01:18	25
cis-1,2-Dichloroethene	ND		25	20	ug/L			02/07/20 01:18	25
Cyclohexane	ND		25	4.5	ug/L			02/07/20 01:18	25
Bromodichloromethane	ND		25	9.8	ug/L			02/07/20 01:18	25
Dichlorodifluoromethane	ND		25	17	ug/L			02/07/20 01:18	25
Ethylbenzene	**140**		25	19	ug/L			02/07/20 01:18	25
1,2-Dibromoethane	ND		25	18	ug/L			02/07/20 01:18	25
Isopropylbenzene	ND		25	20	ug/L			02/07/20 01:18	25
Methyl acetate	ND		63	33	ug/L			02/07/20 01:18	25
Methyl tert-butyl ether	ND		25	4.0	ug/L			02/07/20 01:18	25
Methylcyclohexane	ND		25	4.0	ug/L			02/07/20 01:18	25
Methylene Chloride	ND		25	11	ug/L			02/07/20 01:18	25
m,p-Xylene	**73**		50	17	ug/L			02/07/20 01:18	25
Naphthalene	**180**		25	11	ug/L			02/07/20 01:18	25
n-Butylbenzene	ND		25	16	ug/L			02/07/20 01:18	25
N-Propylbenzene	ND		25	17	ug/L			02/07/20 01:18	25
o-Xylene	**47**		25	19	ug/L			02/07/20 01:18	25
sec-Butylbenzene	ND		25	19	ug/L			02/07/20 01:18	25
Tetrachloroethene	ND		25	9.0	ug/L			02/07/20 01:18	25
Toluene	**400**		25	13	ug/L			02/07/20 01:18	25

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

Job ID: 480-165788-1

Client Sample ID: Pre-Carbon

Date Collected: 01/31/20 10:40
Date Received: 01/31/20 11:30

Lab Sample ID: 480-165788-2

Matrix: Wastewater

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		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	Qualifier	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**	**B**	50.0	20.0	mg/L			02/06/20 01:30	5

Lab Chronicle

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

Job ID: 480-165788-1

Client Sample ID: Post-Carbon 2

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

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

Client Sample ID: Pre-Carbon

Lab Sample ID: 480-165788-2
Date Collected: 01/31/20 10:40
Matrix: Wastewater
Date Received: 01/31/20 11:30

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

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 analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Wastewater	Cyanide, Total
8260C		Wastewater	1,2-Dibromoethane
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

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

Method Summary

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

Job ID: 480-165788-1

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

Sample Summary

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

Job ID: 480-165788-1

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	

Buffalo
10 Hazelwood Drive

Amherst, NY 14228
phone 716.504.9852 fax 716.691.7991

2525
monthly

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Glenn May (NYSDEC)	Site Contact: Thomas Palmer	Date: 1/31/20	COC No:
Groundwater & Environmental Services, Inc	Tel/Fax: (716) 851-7220	Lab Contact: O. Johnson	Carrier:	____ of ____ COCs
~~495 Aero Drive Suite~~ 3 415 Cascade Bell Drive	**Analysis Turnaround Time**			Job No.
~~Cheektowaga, NY 14225~~ Williamsville NY 14221	Calendar (C) or Work Days (W) ____			
(800) 287-7857 Phone	TAT if different from Below ____			
(866) 902-2187 FAX	[X] 2 weeks			SDG No.
Project Name: NYSDEC Gatown WWTP	[ ] 1 week			
Site: 915171	[ ] 2 days			
P O # Callout 120597 GES Project #0901691-05-220	[ ] 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	300.0_28D (MOD) Local Method	200.7 - (MOD) Local Method	310.2 - Alkalinity		TCL and STARS list - VOA - 8260	335.4 - Cyanide, Total	SM4500_H+-pH							Sample Specific Notes:
Post-Carbon 2	1/31/20	1030	Grab	W	6	N					X	X	X							
Pre-Carbon	1/31/20	1040	Grab	W	6	N	X	X	X		X									

480-165788 Chain of Custody

Page 14 of 15

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification
[ ] *Non-Hazard* [ ] *Flammable* [ ] *Skin Irritant* *Poison B* [ ] *Unknown* [ ]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[ ] *Return To Client* [ ] *Disposal By Lab* [ ] *Archive For* ____ *Months*

Special Instructions/QC Requirements & Comments:

3.8 #1

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
GES	GES	1/31/20 1130			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
				TMS	1-31-20 1130

2/10/2020

Form No. CA-C-WI-002, dated 04/07/2011

Login Sample Receipt Checklist

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

Login Number: 165788 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
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	
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 | Environment Testing TestAmerica

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. Giacomazza

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

Review your project results through TotalAccess

Have a Question? Ask The Expert

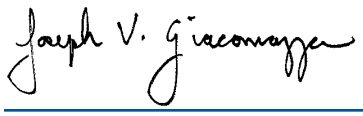
Visit us at: www.testamericainc.com

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.

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
3/12/2020 2:35:30 PM

Table of Contents

Definitions/Glossary

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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.

Metals

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

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)

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.

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

Job ID: 480-166849-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/03/20 11:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/03/20 11:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/03/20 11:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/03/20 11:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/03/20 11:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/03/20 11:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/03/20 11:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			03/03/20 11:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/03/20 11:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/03/20 11:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/03/20 11:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/03/20 11:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			03/03/20 11:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/03/20 11:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/03/20 11:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/03/20 11:14	1
2-Hexanone	ND		5.0	1.2	ug/L			03/03/20 11:14	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			03/03/20 11:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/03/20 11:14	1
Acetone	ND		10	3.0	ug/L			03/03/20 11:14	1
Benzene	ND		1.0	0.41	ug/L			03/03/20 11:14	1
Bromoform	ND		1.0	0.26	ug/L			03/03/20 11:14	1
Bromomethane	ND		1.0	0.69	ug/L			03/03/20 11:14	1
Carbon disulfide	**0.78**	**J**	1.0	0.19	ug/L			03/03/20 11:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/03/20 11:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/03/20 11:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/03/20 11:14	1
Chloroethane	ND		1.0	0.32	ug/L			03/03/20 11:14	1
Chloroform	ND		1.0	0.34	ug/L			03/03/20 11:14	1
Chloromethane	ND		1.0	0.35	ug/L			03/03/20 11:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/03/20 11:14	1
Cyclohexane	ND		1.0	0.18	ug/L			03/03/20 11:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/03/20 11:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/03/20 11:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/03/20 11:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/03/20 11:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/03/20 11:14	1
Methyl acetate	ND		2.5	1.3	ug/L			03/03/20 11:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/03/20 11:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/03/20 11:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/03/20 11:14	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/03/20 11:14	1
Naphthalene	ND		1.0	0.43	ug/L			03/03/20 11:14	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/03/20 11:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/03/20 11:14	1
o-Xylene	ND		1.0	0.76	ug/L			03/03/20 11:14	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/03/20 11:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/03/20 11:14	1
Toluene	ND		1.0	0.51	ug/L			03/03/20 11:14	1

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

Job ID: 480-166849-1

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

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		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
pH	**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

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			03/03/20 11:38	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			03/03/20 11:38	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			03/03/20 11:38	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			03/03/20 11:38	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			03/03/20 11:38	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			03/03/20 11:38	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			03/03/20 11:38	5
1,2,4-Trimethylbenzene	**5.3**		5.0	3.8	ug/L			03/03/20 11:38	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			03/03/20 11:38	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			03/03/20 11:38	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			03/03/20 11:38	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			03/03/20 11:38	5
1,3,5-Trimethylbenzene	ND		5.0	3.9	ug/L			03/03/20 11:38	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			03/03/20 11:38	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			03/03/20 11:38	5
2-Butanone (MEK)	ND		50	6.6	ug/L			03/03/20 11:38	5
2-Hexanone	ND		25	6.2	ug/L			03/03/20 11:38	5
4-Isopropyltoluene	ND		5.0	1.6	ug/L			03/03/20 11:38	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			03/03/20 11:38	5
Acetone	ND		50	15	ug/L			03/03/20 11:38	5
Bromoform	ND		5.0	1.3	ug/L			03/03/20 11:38	5
Bromomethane	ND		5.0	3.5	ug/L			03/03/20 11:38	5
Carbon disulfide	ND		5.0	0.95	ug/L			03/03/20 11:38	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			03/03/20 11:38	5
Chlorobenzene	ND		5.0	3.8	ug/L			03/03/20 11:38	5
Dibromochloromethane	ND		5.0	1.6	ug/L			03/03/20 11:38	5
Chloroethane	ND		5.0	1.6	ug/L			03/03/20 11:38	5
Chloroform	ND		5.0	1.7	ug/L			03/03/20 11:38	5
Chloromethane	ND		5.0	1.8	ug/L			03/03/20 11:38	5
cis-1,2-Dichloroethene	**4.8**	**J**	5.0	4.1	ug/L			03/03/20 11:38	5
Cyclohexane	ND		5.0	0.90	ug/L			03/03/20 11:38	5
Bromodichloromethane	ND		5.0	2.0	ug/L			03/03/20 11:38	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			03/03/20 11:38	5
Ethylbenzene	**99**		5.0	3.7	ug/L			03/03/20 11:38	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			03/03/20 11:38	5
Isopropylbenzene	ND		5.0	4.0	ug/L			03/03/20 11:38	5
Methyl acetate	ND		13	6.5	ug/L			03/03/20 11:38	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			03/03/20 11:38	5
Methylcyclohexane	ND		5.0	0.80	ug/L			03/03/20 11:38	5
Methylene Chloride	ND		5.0	2.2	ug/L			03/03/20 11:38	5
m,p-Xylene	**47**		10	3.3	ug/L			03/03/20 11:38	5
Naphthalene	**71**		5.0	2.2	ug/L			03/03/20 11:38	5
n-Butylbenzene	ND		5.0	3.2	ug/L			03/03/20 11:38	5
N-Propylbenzene	ND		5.0	3.5	ug/L			03/03/20 11:38	5
o-Xylene	**27**		5.0	3.8	ug/L			03/03/20 11:38	5
sec-Butylbenzene	ND		5.0	3.8	ug/L			03/03/20 11:38	5
Tetrachloroethene	ND		5.0	1.8	ug/L			03/03/20 11:38	5
Toluene	**240**		5.0	2.6	ug/L			03/03/20 11:38	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			03/03/20 11:38	5

Client Sample ID: Pre-Carbon

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

Lab Sample ID: 480-166849-2

Matrix: Wastewater

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

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*

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

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 (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**129000**	**F2**	500	100	ug/L		03/02/20 08:40	03/02/20 16:16	1
Magnesium	**40200**	**F2**	200	43.4	ug/L		03/02/20 08:40	03/02/20 16:16	1
Potassium	**3500**	**F2**	500	100	ug/L		03/02/20 08:40	03/02/20 16:16	1
Sodium	**76100**	**F2**	1000	324	ug/L		03/02/20 08:40	03/02/20 16:16	1

General Chemistry

Analyte	Result	Qualifier	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
Lab Sample ID: 480-166849-1

Date Collected: 02/28/20 09:00
Matrix: Wastewater
Date Received: 02/28/20 10:30

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

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

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

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Wastewater	Cyanide, Total
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

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

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	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: MR	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-143013-28090.1
Client Contact: Thomas Palmer	Phone: 800 287 7857	E-Mail: orlette.johnson@testamericainc.com		Page: Page 1 of 1
Company: Groundwater & Environmental Services Inc		**Analysis Requested**		Job #:
Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:			
City: Williamsville	TAT Requested (days): STD.			
State, Zip: NY, 14221				
Phone: 518-402-9662(Tel)	PO #: CallOut ID 136076			
Email: tpalmer@gesonline.com	WO #:			
Project Name: Gastown WWTP #915171 - Monthly Event Desc: Monthly	Project #: 48002525			
Site: New York	SSOW#:			

Preservation Codes:

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 Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	335.4 - Cyanide, Total	SM4500_H+ - pH	8260C - TCL + CP-51 (Stars)	300.0_28D - Cl, SO4	200.7 - Ca, Mg, K, Na	310.2 - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				B	N	A	N	D	N		
Post-Carbon 2	2/28/20	0900	G	Water	N	N	✓	✓	✓					
Pre-Carbon	2/28/20	0910	G	Water	N	N			✓	✓	✓	✓		

480-166849 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	2/28 1030	GES	[signature]	2-28-20 10:30	TAB
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

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

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 | 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. Giacomazza

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

Review your project results through TotalAccess

Have a Question? Ask The Expert

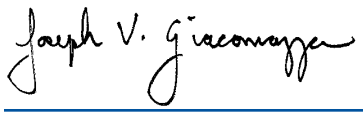
Visit us at: www.testamericainc.com

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.

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
4/3/2020 10:07:46 AM

Table of Contents

Definitions/Glossary

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

Qualifiers

GC/MS VOA

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

GC 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 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)

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 3.3º 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.

HPLC/IC
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

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.
Project/Site: Gastown WWTP #915171

Job ID: 480-167889-1

Client Sample ID: Post-Carbon 2

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

Lab Sample ID: 480-167889-1

Matrix: Wastewater

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/30/20 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
Methylene Chloride	ND		1.0	0.44	ug/L			03/30/20 18:20	1
m,p-Xylene	ND		2.0	0.66	ug/L			03/30/20 18:20	1
Naphthalene	ND		1.0	0.43	ug/L			03/30/20 18:20	1
n-Butylbenzene	ND		1.0	0.64	ug/L			03/30/20 18:20	1
N-Propylbenzene	ND		1.0	0.69	ug/L			03/30/20 18:20	1
o-Xylene	ND		1.0	0.76	ug/L			03/30/20 18:20	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			03/30/20 18:20	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/30/20 18:20	1
Toluene	ND		1.0	0.51	ug/L			03/30/20 18:20	1

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

Job ID: 480-167889-1

Client Sample ID: Post-Carbon 2

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

Lab Sample ID: 480-167889-1

Matrix: Wastewater

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		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*

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

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*
2-Fluorobiphenyl	*84*		*48 - 120*	*03/30/20 09:14*	*03/31/20 13:28*	*1*
p-Terphenyl-d14	*91*		*60 - 148*	*03/30/20 09:14*	*03/31/20 13:28*	*1*
Phenol-d5	*48*		*22 - 120*	*03/30/20 09:14*	*03/31/20 13:28*	*1*
2-Fluorophenol	*62*		*35 - 120*	*03/30/20 09:14*	*03/31/20 13:28*	*1*
2,4,6-Tribromophenol	*76*		*41 - 120*	*03/30/20 09:14*	*03/31/20 13:28*	*1*

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

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

Method: 608.3 - Organochlorine Pesticides in Water

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**	**J B**	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**	**B**	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
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			03/28/20 08:01	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			03/27/20 18:29	1
pH	**7.6**	**HF**	0.1	0.1	SU			03/29/20 11:48	1
Temperature	**17.5**	**HF**	0.001	0.001	Degrees C			03/29/20 11:48	1

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

Job ID: 480-167889-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			03/30/20 23:22	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			03/30/20 23:22	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			03/30/20 23:22	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			03/30/20 23:22	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			03/30/20 23:22	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			03/30/20 23:22	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			03/30/20 23:22	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			03/30/20 23:22	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			03/30/20 23:22	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			03/30/20 23:22	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			03/30/20 23:22	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			03/30/20 23:22	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			03/30/20 23:22	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			03/30/20 23:22	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			03/30/20 23:22	4
2-Butanone (MEK)	ND		40	5.3	ug/L			03/30/20 23:22	4
2-Hexanone	ND		20	5.0	ug/L			03/30/20 23:22	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			03/30/20 23:22	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			03/30/20 23:22	4
Acetone	ND		40	12	ug/L			03/30/20 23:22	4
Benzene	**160**		4.0	1.6	ug/L			03/30/20 23:22	4
Bromoform	ND		4.0	1.0	ug/L			03/30/20 23:22	4
Bromomethane	ND		4.0	2.8	ug/L			03/30/20 23:22	4
Carbon disulfide	ND		4.0	0.76	ug/L			03/30/20 23:22	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			03/30/20 23:22	4
Chlorobenzene	ND		4.0	3.0	ug/L			03/30/20 23:22	4
Dibromochloromethane	**3.0**	**J**	4.0	1.3	ug/L			03/30/20 23:22	4
Chloroethane	ND		4.0	1.3	ug/L			03/30/20 23:22	4
Chloroform	**11**		4.0	1.4	ug/L			03/30/20 23:22	4
Chloromethane	ND		4.0	1.4	ug/L			03/30/20 23:22	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			03/30/20 23:22	4
Cyclohexane	ND		4.0	0.72	ug/L			03/30/20 23:22	4
Bromodichloromethane	**7.0**		4.0	1.6	ug/L			03/30/20 23:22	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			03/30/20 23:22	4
Ethylbenzene	**19**		4.0	3.0	ug/L			03/30/20 23:22	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			03/30/20 23:22	4
Isopropylbenzene	ND		4.0	3.2	ug/L			03/30/20 23:22	4
Methyl acetate	ND		10	5.2	ug/L			03/30/20 23:22	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			03/30/20 23:22	4
Methylcyclohexane	ND		4.0	0.64	ug/L			03/30/20 23:22	4
Methylene Chloride	ND		4.0	1.8	ug/L			03/30/20 23:22	4
m,p-Xylene	**5.2**	**J**	8.0	2.6	ug/L			03/30/20 23:22	4
Naphthalene	**22**		4.0	1.7	ug/L			03/30/20 23:22	4
n-Butylbenzene	ND		4.0	2.6	ug/L			03/30/20 23:22	4
N-Propylbenzene	ND		4.0	2.8	ug/L			03/30/20 23:22	4
o-Xylene	**4.3**		4.0	3.0	ug/L			03/30/20 23:22	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			03/30/20 23:22	4
Tetrachloroethene	ND		4.0	1.4	ug/L			03/30/20 23:22	4
Toluene	**28**		4.0	2.0	ug/L			03/30/20 23:22	4

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

Job ID: 480-167889-1

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

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		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	Result	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

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**33.6**		2.5	1.4	mg/L			03/31/20 13:04	5
Sulfate	**30.5**		10.0	1.7	mg/L			03/31/20 13:04	5
Alkalinity, Total	**143**		40.0	16.0	mg/L			03/30/20 11:17	4

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
Lab Sample ID: 480-167889-1
Date Collected: 03/27/20 08:50
Matrix: Wastewater
Date Received: 03/27/20 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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
Lab Sample ID: 480-167889-2
Date Collected: 03/27/20 09:00
Matrix: Wastewater
Date Received: 03/27/20 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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 are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Wastewater	Cyanide, Total
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

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

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	

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MK	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-123669-28089.1
Client Contact: Thomas Palmer	Phone: 800 287 7857	E-Mail: orlette.johnson@testamericainc.com		Page:

Company: Groundwater & Environmental Services Inc		
Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:	
City: Williamsville	TAT Requested (days): STD	
State, Zip: NY, 14221		
Phone: 518-402-9662(Tel)	PO #: CallOut ID 136076	
Email: tpalmer@gesonline.com	WO #: GES Project # 0901691	
Project Name: Gastown WWTP #915171 - Quarterly Event Desc: Quarterly	Project #: 48002525	
Site: New York	SSOW#:	

480-167889 Chain of Custody

Analysis Requested

F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	420.4 - Phenolics, Total Recoverable	8260C - TCL + CP-51 (Stars)	608_Pest - Priority Pollutant Pesticides	8270C - (MOD) TCL SVOA	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	335.4 - Cyanide, Total	SM4500_H+ - pH	1664B - Oil and Grease	300.0_28D - (MOD) Cl, SO4	200.7 - Ca, Mg, K, Na	310.2 - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	A	N	N	N	N	N	B	N	S	N	D	N		
Post-Carbon 2	3/27/20	0850	G	Water	N	N	X	X	X	X	X	X	X	X	X	X					
Pre-Carbon	3/27/20	0900	G	Water	N	N		X									X	X	X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/27 0935	GES			
2		3/27 0935	Fedex		3/27/20 0935	TAB
3						

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: #1 3.3

Ver: 01/16/2019

Login Sample Receipt Checklist

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

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 | Environment Testing TestAmerica

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

Review your project results through TotalAccess

Have a Question? Ask The Expert

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.

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

Table of Contents

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
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
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)

Case Narrative

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

Job ID: 480-168908-1

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.

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

Job ID: 480-168908-1

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 Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	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	ug/L			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	0.27	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	0.32	ug/L			04/23/20 16:45	1
Chloroethane	ND		1.0	0.32	ug/L			04/23/20 16:45	1
Chloroform	**0.79**	**J**	1.0	0.34	ug/L			04/23/20 16:45	1
Chloromethane	ND		1.0	0.35	ug/L			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	ug/L			04/23/20 16:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/23/20 16:45	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/23/20 16:45	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/23/20 16:45	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/23/20 16:45	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/23/20 16:45	1
Methyl acetate	ND		2.5	1.3	ug/L			04/23/20 16:45	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/23/20 16:45	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/23/20 16:45	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/23/20 16:45	1
m,p-Xylene	ND		2.0	0.66	ug/L			04/23/20 16:45	1
Naphthalene	ND		1.0	0.43	ug/L			04/23/20 16:45	1
n-Butylbenzene	ND		1.0	0.64	ug/L			04/23/20 16:45	1
N-Propylbenzene	ND		1.0	0.69	ug/L			04/23/20 16:45	1
o-Xylene	ND		1.0	0.76	ug/L			04/23/20 16:45	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			04/23/20 16:45	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/23/20 16:45	1
Toluene	ND		1.0	0.51	ug/L			04/23/20 16:45	1

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

Job ID: 480-168908-1

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 Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	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.
Project/Site: Gastown WWTP #915171

Job ID: 480-168908-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	4.1	ug/L			04/23/20 17:08	5
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			04/23/20 17:08	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			04/23/20 17:08	5
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			04/23/20 17:08	5
1,1-Dichloroethane	ND		5.0	1.9	ug/L			04/23/20 17:08	5
1,1-Dichloroethene	ND		5.0	1.5	ug/L			04/23/20 17:08	5
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			04/23/20 17:08	5
1,2,4-Trimethylbenzene	**11**		5.0	3.8	ug/L			04/23/20 17:08	5
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			04/23/20 17:08	5
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			04/23/20 17:08	5
1,2-Dichloroethane	ND		5.0	1.1	ug/L			04/23/20 17:08	5
1,2-Dichloropropane	ND		5.0	3.6	ug/L			04/23/20 17:08	5
1,3,5-Trimethylbenzene	ND		5.0	3.9	ug/L			04/23/20 17:08	5
1,3-Dichlorobenzene	ND		5.0	3.9	ug/L			04/23/20 17:08	5
1,4-Dichlorobenzene	ND		5.0	4.2	ug/L			04/23/20 17:08	5
2-Butanone (MEK)	ND		50	6.6	ug/L			04/23/20 17:08	5
2-Hexanone	ND		25	6.2	ug/L			04/23/20 17:08	5
4-Isopropyltoluene	ND		5.0	1.6	ug/L			04/23/20 17:08	5
4-Methyl-2-pentanone (MIBK)	ND		25	11	ug/L			04/23/20 17:08	5
Acetone	ND		50	15	ug/L			04/23/20 17:08	5
Bromoform	ND		5.0	1.3	ug/L			04/23/20 17:08	5
Bromomethane	ND		5.0	3.5	ug/L			04/23/20 17:08	5
Carbon disulfide	ND		5.0	0.95	ug/L			04/23/20 17:08	5
Carbon tetrachloride	ND		5.0	1.4	ug/L			04/23/20 17:08	5
Chlorobenzene	ND		5.0	3.8	ug/L			04/23/20 17:08	5
Dibromochloromethane	ND		5.0	1.6	ug/L			04/23/20 17:08	5
Chloroethane	ND		5.0	1.6	ug/L			04/23/20 17:08	5
Chloroform	ND		5.0	1.7	ug/L			04/23/20 17:08	5
Chloromethane	ND		5.0	1.8	ug/L			04/23/20 17:08	5
cis-1,2-Dichloroethene	**4.4**	**J**	5.0	4.1	ug/L			04/23/20 17:08	5
Cyclohexane	ND		5.0	0.90	ug/L			04/23/20 17:08	5
Bromodichloromethane	ND		5.0	2.0	ug/L			04/23/20 17:08	5
Dichlorodifluoromethane	ND		5.0	3.4	ug/L			04/23/20 17:08	5
Ethylbenzene	**74**		5.0	3.7	ug/L			04/23/20 17:08	5
1,2-Dibromoethane	ND		5.0	3.7	ug/L			04/23/20 17:08	5
Isopropylbenzene	ND		5.0	4.0	ug/L			04/23/20 17:08	5
Methyl acetate	ND		13	6.5	ug/L			04/23/20 17:08	5
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			04/23/20 17:08	5
Methylcyclohexane	ND		5.0	0.80	ug/L			04/23/20 17:08	5
Methylene Chloride	ND		5.0	2.2	ug/L			04/23/20 17:08	5
m,p-Xylene	**94**		10	3.3	ug/L			04/23/20 17:08	5
Naphthalene	**130**		5.0	2.2	ug/L			04/23/20 17:08	5
n-Butylbenzene	ND		5.0	3.2	ug/L			04/23/20 17:08	5
N-Propylbenzene	ND		5.0	3.5	ug/L			04/23/20 17:08	5
o-Xylene	**59**		5.0	3.8	ug/L			04/23/20 17:08	5
sec-Butylbenzene	ND		5.0	3.8	ug/L			04/23/20 17:08	5
Tetrachloroethene	ND		5.0	1.8	ug/L			04/23/20 17:08	5
Toluene	**420**		5.0	2.6	ug/L			04/23/20 17:08	5
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			04/23/20 17:08	5

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

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

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*

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

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 - 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	Analyzed	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.
Project/Site: Gastown WWTP #915171

Job ID: 480-168908-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			04/24/20 12:24	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			04/24/20 12:24	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			04/24/20 12:24	100
1,1,2-Trichloroethane	ND		100	23	ug/L			04/24/20 12:24	100
1,1-Dichloroethane	ND		100	38	ug/L			04/24/20 12:24	100
1,1-Dichloroethene	ND		100	29	ug/L			04/24/20 12:24	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			04/24/20 12:24	100
1,2,4-Trimethylbenzene	ND		100	75	ug/L			04/24/20 12:24	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			04/24/20 12:24	100
1,2-Dichlorobenzene	ND		100	79	ug/L			04/24/20 12:24	100
1,2-Dichloroethane	ND		100	21	ug/L			04/24/20 12:24	100
1,2-Dichloropropane	ND		100	72	ug/L			04/24/20 12:24	100
1,3,5-Trimethylbenzene	ND		100	77	ug/L			04/24/20 12:24	100
1,3-Dichlorobenzene	ND		100	78	ug/L			04/24/20 12:24	100
1,4-Dichlorobenzene	ND		100	84	ug/L			04/24/20 12:24	100
2-Butanone (MEK)	ND		1000	130	ug/L			04/24/20 12:24	100
2-Hexanone	ND		500	120	ug/L			04/24/20 12:24	100
4-Isopropyltoluene	ND		100	31	ug/L			04/24/20 12:24	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			04/24/20 12:24	100
Acetone	ND		1000	300	ug/L			04/24/20 12:24	100
Benzene	**4500**		100	41	ug/L			04/24/20 12:24	100
Bromoform	ND		100	26	ug/L			04/24/20 12:24	100
Bromomethane	ND		100	69	ug/L			04/24/20 12:24	100
Carbon disulfide	ND		100	19	ug/L			04/24/20 12:24	100
Carbon tetrachloride	ND		100	27	ug/L			04/24/20 12:24	100
Chlorobenzene	ND		100	75	ug/L			04/24/20 12:24	100
Dibromochloromethane	ND		100	32	ug/L			04/24/20 12:24	100
Chloroethane	ND		100	32	ug/L			04/24/20 12:24	100
Chloroform	ND		100	34	ug/L			04/24/20 12:24	100
Chloromethane	ND		100	35	ug/L			04/24/20 12:24	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			04/24/20 12:24	100
Cyclohexane	ND		100	18	ug/L			04/24/20 12:24	100
Bromodichloromethane	ND		100	39	ug/L			04/24/20 12:24	100
Dichlorodifluoromethane	ND		100	68	ug/L			04/24/20 12:24	100
Ethylbenzene	**250**		100	74	ug/L			04/24/20 12:24	100
1,2-Dibromoethane	ND		100	73	ug/L			04/24/20 12:24	100
Isopropylbenzene	ND		100	79	ug/L			04/24/20 12:24	100
Methyl acetate	ND		250	130	ug/L			04/24/20 12:24	100
Methyl tert-butyl ether	ND		100	16	ug/L			04/24/20 12:24	100
Methylcyclohexane	ND		100	16	ug/L			04/24/20 12:24	100
Methylene Chloride	ND		100	44	ug/L			04/24/20 12:24	100
m,p-Xylene	**130**	**J**	200	66	ug/L			04/24/20 12:24	100
Naphthalene	**640**		100	43	ug/L			04/24/20 12:24	100
n-Butylbenzene	ND		100	64	ug/L			04/24/20 12:24	100
N-Propylbenzene	ND		100	69	ug/L			04/24/20 12:24	100
o-Xylene	ND		100	76	ug/L			04/24/20 12:24	100
sec-Butylbenzene	ND		100	75	ug/L			04/24/20 12:24	100
Tetrachloroethene	ND		100	36	ug/L			04/24/20 12:24	100
Toluene	**710**		100	51	ug/L			04/24/20 12:24	100

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

Job ID: 480-168908-1

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

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		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*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*04/24/20 12:24*	*100*

Lab Chronicle

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

Job ID: 480-168908-1

Client Sample ID: Post-Carbon 2

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

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

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	527632	04/23/20 17:08	CRL	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

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Wastewater	Cyanide, Total
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Method Summary

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

Job ID: 480-168908-1

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

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 ID
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	

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MR	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-123660-28090.1
Client Contact: Thomas Palmer	Phone: 800 287 7857	E-Mail: orlette.johnson@testamericainc.com		Page: Page 1 of 1
Company: Groundwater & Environmental Services Inc				Job #:
Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:			
City: Williamsville	TAT Requested (days): STD			
State, Zip: NY, 14221				
Phone: 518-402-9662(Tel)	PO #: CallOut ID 136076			
Email: tpalmer@gesonline.com	WO #: GES Project # 0901691			
Project Name: Gastown WWTP #915171 - Monthly Event Desc: Monthly	Project #: 48002525			
Site: New York	SSOW#:			

Analysis Requested

480-168908 Chain of Custody

Preservation Codes:
A - HCL
B - NaOH
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
cid
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	335.4 - Cyanide, Total	SM4500_H+ - pH	8260C - TCL + CP-51 (Stars)	300.0_28D - Cl, SO4	200.7 - Ca, Mg, K, Na	310.2 - Alkalinity, Total	Total Number of contai	Special Instructions/Note:
			Preservation Code:				B	N	A	N	D	N		
Post-Carbon 2	4/22	0910	G	Water	W	N	X	X	X					
Pre-Carbon	4/22	0915	G	Water					X	X	X	X		
Outside Sump	4/22	0920	G	water										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	4/22 0950	CES	[signature]	4/22/20 0930	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.0 #1 ICE

Ver: 01/16/2019

Login Sample Receipt Checklist

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

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 | Environment Testing America

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. Giacomazza

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

Review your project results through TotalAccess

Have a Question? Ask The Expert

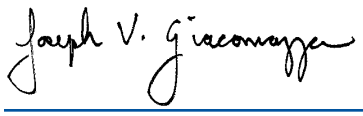
Visit us at: www.eurofinsus.com/Env

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

Table of Contents

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

GC/MS Semi VOA

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

GC 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.
p	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.
¤	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)
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)

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

Job ID: 480-170188-1

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 5.6º 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.

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

Client Sample ID: Post-Carbon 2
Lab Sample ID: 480-170188-1
Date Collected: 05/20/20 13:45
Matrix: Wastewater
Date Received: 05/20/20 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			05/22/20 13:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			05/22/20 13:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			05/22/20 13:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			05/22/20 13:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			05/22/20 13:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			05/22/20 13:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			05/22/20 13:14	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			05/22/20 13:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			05/22/20 13:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			05/22/20 13:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			05/22/20 13:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			05/22/20 13:14	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			05/22/20 13:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			05/22/20 13:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			05/22/20 13:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			05/22/20 13:14	1
2-Hexanone	ND		5.0	1.2	ug/L			05/22/20 13:14	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			05/22/20 13:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			05/22/20 13:14	1
Acetone	ND		10	3.0	ug/L			05/22/20 13:14	1
Benzene	ND		1.0	0.41	ug/L			05/22/20 13:14	1
Bromoform	ND		1.0	0.26	ug/L			05/22/20 13:14	1
Bromomethane	ND		1.0	0.69	ug/L			05/22/20 13:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			05/22/20 13:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			05/22/20 13:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			05/22/20 13:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			05/22/20 13:14	1
Chloroethane	ND		1.0	0.32	ug/L			05/22/20 13:14	1
Chloroform	ND		1.0	0.34	ug/L			05/22/20 13:14	1
Chloromethane	ND		1.0	0.35	ug/L			05/22/20 13:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			05/22/20 13:14	1
Cyclohexane	ND		1.0	0.18	ug/L			05/22/20 13:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			05/22/20 13:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			05/22/20 13:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			05/22/20 13:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			05/22/20 13:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			05/22/20 13:14	1
Methyl acetate	ND		2.5	1.3	ug/L			05/22/20 13:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			05/22/20 13:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			05/22/20 13:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			05/22/20 13:14	1
m,p-Xylene	ND		2.0	0.66	ug/L			05/22/20 13:14	1
Naphthalene	ND		1.0	0.43	ug/L			05/22/20 13:14	1
n-Butylbenzene	ND		1.0	0.64	ug/L			05/22/20 13:14	1
N-Propylbenzene	ND		1.0	0.69	ug/L			05/22/20 13:14	1
o-Xylene	ND		1.0	0.76	ug/L			05/22/20 13:14	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			05/22/20 13:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			05/22/20 13:14	1
Toluene	ND		1.0	0.51	ug/L			05/22/20 13:14	1

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

Job ID: 480-170188-1

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

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		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*
Dibromofluoromethane (Surr)	*108*		*75 - 123*		*05/22/20 13:14*	*1*

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

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**	**J B**	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**	**J B**	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*
Phenol-d5	*53*		*22 - 120*	*05/26/20 07:16*	*05/27/20 05:58*	*1*
2-Fluorophenol	*73*		*35 - 120*	*05/26/20 07:16*	*05/27/20 05:58*	*1*
2,4,6-Tribromophenol	*107*		*41 - 120*	*05/26/20 07:16*	*05/27/20 05:58*	*1*

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

Client Sample ID: Post-Carbon 2
Lab Sample ID: 480-170188-1
Date Collected: 05/20/20 13:45
Matrix: Wastewater
Date Received: 05/20/20 14:25

Method: 608.3 - Organochlorine Pesticides in Water

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**	**J p**	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	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

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

Job ID: 480-170188-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		25	21	ug/L			05/22/20 13:37	25
1,1,2,2-Tetrachloroethane	ND		25	5.3	ug/L			05/22/20 13:37	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	7.8	ug/L			05/22/20 13:37	25
1,1,2-Trichloroethane	ND		25	5.8	ug/L			05/22/20 13:37	25
1,1-Dichloroethane	ND		25	9.5	ug/L			05/22/20 13:37	25
1,1-Dichloroethene	ND		25	7.3	ug/L			05/22/20 13:37	25
1,2,4-Trichlorobenzene	ND		25	10	ug/L			05/22/20 13:37	25
1,2,4-Trimethylbenzene	ND		25	19	ug/L			05/22/20 13:37	25
1,2-Dibromo-3-Chloropropane	ND		25	9.8	ug/L			05/22/20 13:37	25
1,2-Dibromoethane	ND		25	18	ug/L			05/22/20 13:37	25
1,2-Dichlorobenzene	ND		25	20	ug/L			05/22/20 13:37	25
1,2-Dichloroethane	ND		25	5.3	ug/L			05/22/20 13:37	25
1,2-Dichloropropane	ND		25	18	ug/L			05/22/20 13:37	25
1,3,5-Trimethylbenzene	ND		25	19	ug/L			05/22/20 13:37	25
1,3-Dichlorobenzene	ND		25	20	ug/L			05/22/20 13:37	25
1,4-Dichlorobenzene	ND		25	21	ug/L			05/22/20 13:37	25
2-Butanone (MEK)	ND		250	33	ug/L			05/22/20 13:37	25
2-Hexanone	ND		130	31	ug/L			05/22/20 13:37	25
4-Isopropyltoluene	ND		25	7.8	ug/L			05/22/20 13:37	25
4-Methyl-2-pentanone (MIBK)	ND		130	53	ug/L			05/22/20 13:37	25
Acetone	ND		250	75	ug/L			05/22/20 13:37	25
Bromodichloromethane	ND		25	9.8	ug/L			05/22/20 13:37	25
Bromoform	ND		25	6.5	ug/L			05/22/20 13:37	25
Bromomethane	ND		25	17	ug/L			05/22/20 13:37	25
Carbon disulfide	ND		25	4.8	ug/L			05/22/20 13:37	25
Carbon tetrachloride	ND		25	6.8	ug/L			05/22/20 13:37	25
Chlorobenzene	ND		25	19	ug/L			05/22/20 13:37	25
Chloroethane	ND		25	8.0	ug/L			05/22/20 13:37	25
Chloroform	**17**	**J**	25	8.5	ug/L			05/22/20 13:37	25
Chloromethane	ND		25	8.8	ug/L			05/22/20 13:37	25
cis-1,2-Dichloroethene	ND		25	20	ug/L			05/22/20 13:37	25
cis-1,3-Dichloropropene	ND		25	9.0	ug/L			05/22/20 13:37	25
Cyclohexane	ND		25	4.5	ug/L			05/22/20 13:37	25
Dibromochloromethane	ND		25	8.0	ug/L			05/22/20 13:37	25
Dichlorodifluoromethane	ND		25	17	ug/L			05/22/20 13:37	25
Ethylbenzene	**200**		25	19	ug/L			05/22/20 13:37	25
Isopropylbenzene	ND		25	20	ug/L			05/22/20 13:37	25
m,p-Xylene	**90**		50	17	ug/L			05/22/20 13:37	25
Methyl acetate	ND		63	33	ug/L			05/22/20 13:37	25
Methyl tert-butyl ether	ND		25	4.0	ug/L			05/22/20 13:37	25
Methylcyclohexane	ND		25	4.0	ug/L			05/22/20 13:37	25
Methylene Chloride	ND		25	11	ug/L			05/22/20 13:37	25
Naphthalene	**310**		25	11	ug/L			05/22/20 13:37	25
n-Butylbenzene	ND		25	16	ug/L			05/22/20 13:37	25
N-Propylbenzene	ND		25	17	ug/L			05/22/20 13:37	25
o-Xylene	**61**		25	19	ug/L			05/22/20 13:37	25
sec-Butylbenzene	ND		25	19	ug/L			05/22/20 13:37	25
Styrene	ND		25	18	ug/L			05/22/20 13:37	25
tert-Butylbenzene	ND		25	20	ug/L			05/22/20 13:37	25

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

Job ID: 480-170188-1

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

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

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*

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

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 - 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

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

Client Sample ID: Outside Sump
Lab Sample ID: 480-170188-3
Date Collected: 05/20/20 14:10
Matrix: Water
Date Received: 05/20/20 14:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			05/22/20 14:00	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			05/22/20 14:00	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			05/22/20 14:00	100
1,1,2-Trichloroethane	ND		100	23	ug/L			05/22/20 14:00	100
1,1-Dichloroethane	ND		100	38	ug/L			05/22/20 14:00	100
1,1-Dichloroethene	ND		100	29	ug/L			05/22/20 14:00	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			05/22/20 14:00	100
1,2,4-Trimethylbenzene	ND		100	75	ug/L			05/22/20 14:00	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			05/22/20 14:00	100
1,2-Dibromoethane	ND		100	73	ug/L			05/22/20 14:00	100
1,2-Dichlorobenzene	ND		100	79	ug/L			05/22/20 14:00	100
1,2-Dichloroethane	ND		100	21	ug/L			05/22/20 14:00	100
1,2-Dichloropropane	ND		100	72	ug/L			05/22/20 14:00	100
1,3,5-Trimethylbenzene	ND		100	77	ug/L			05/22/20 14:00	100
1,3-Dichlorobenzene	ND		100	78	ug/L			05/22/20 14:00	100
1,4-Dichlorobenzene	ND		100	84	ug/L			05/22/20 14:00	100
2-Butanone (MEK)	ND		1000	130	ug/L			05/22/20 14:00	100
2-Hexanone	ND		500	120	ug/L			05/22/20 14:00	100
4-Isopropyltoluene	ND		100	31	ug/L			05/22/20 14:00	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			05/22/20 14:00	100
Acetone	ND		1000	300	ug/L			05/22/20 14:00	100
Benzene	**4300**		100	41	ug/L			05/22/20 14:00	100
Bromodichloromethane	ND		100	39	ug/L			05/22/20 14:00	100
Bromoform	ND		100	26	ug/L			05/22/20 14:00	100
Bromomethane	ND		100	69	ug/L			05/22/20 14:00	100
Carbon disulfide	ND		100	19	ug/L			05/22/20 14:00	100
Carbon tetrachloride	ND		100	27	ug/L			05/22/20 14:00	100
Chlorobenzene	ND		100	75	ug/L			05/22/20 14:00	100
Chloroethane	ND		100	32	ug/L			05/22/20 14:00	100
Chloroform	ND		100	34	ug/L			05/22/20 14:00	100
Chloromethane	ND		100	35	ug/L			05/22/20 14:00	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			05/22/20 14:00	100
cis-1,3-Dichloropropene	ND		100	36	ug/L			05/22/20 14:00	100
Cyclohexane	ND		100	18	ug/L			05/22/20 14:00	100
Dibromochloromethane	ND		100	32	ug/L			05/22/20 14:00	100
Dichlorodifluoromethane	ND		100	68	ug/L			05/22/20 14:00	100
Ethylbenzene	**210**		100	74	ug/L			05/22/20 14:00	100
Isopropylbenzene	ND		100	79	ug/L			05/22/20 14:00	100
m,p-Xylene	**100**	**J**	200	66	ug/L			05/22/20 14:00	100
Methyl acetate	ND		250	130	ug/L			05/22/20 14:00	100
Methyl tert-butyl ether	ND		100	16	ug/L			05/22/20 14:00	100
Methylcyclohexane	ND		100	16	ug/L			05/22/20 14:00	100
Methylene Chloride	ND		100	44	ug/L			05/22/20 14:00	100
Naphthalene	**340**		100	43	ug/L			05/22/20 14:00	100
n-Butylbenzene	ND		100	64	ug/L			05/22/20 14:00	100
N-Propylbenzene	ND		100	69	ug/L			05/22/20 14:00	100
o-Xylene	ND		100	76	ug/L			05/22/20 14:00	100
sec-Butylbenzene	ND		100	75	ug/L			05/22/20 14:00	100
Styrene	ND		100	73	ug/L			05/22/20 14:00	100

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

Job ID: 480-170188-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	ND		100	81	ug/L			05/22/20 14:00	100
Tetrachloroethene	ND		100	36	ug/L			05/22/20 14:00	100
Toluene	**600**		100	51	ug/L			05/22/20 14:00	100
trans-1,2-Dichloroethene	ND		100	90	ug/L			05/22/20 14:00	100
trans-1,3-Dichloropropene	ND		100	37	ug/L			05/22/20 14:00	100
Trichloroethene	ND		100	46	ug/L			05/22/20 14:00	100
Trichlorofluoromethane	ND		100	88	ug/L			05/22/20 14:00	100
Vinyl chloride	ND		100	90	ug/L			05/22/20 14:00	100
Xylenes, Total	**100**	**J**	200	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*

Lab Chronicle

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

Client Sample ID: Post-Carbon 2
Lab Sample ID: 480-170188-1
Date Collected: 05/20/20 13:45
Matrix: Wastewater
Date Received: 05/20/20 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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
Lab Sample ID: 480-170188-2
Date Collected: 05/20/20 14:00
Matrix: Wastewater
Date Received: 05/20/20 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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
Lab Sample ID: 480-170188-3
Date Collected: 05/20/20 14:10
Matrix: Water
Date Received: 05/20/20 14:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Wastewater	Cyanide, Total
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Method Summary

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

Job ID: 480-170188-1

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
420.4	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
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

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

Sample Summary

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

Job ID: 480-170188-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
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	

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MK	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-123669-28089.1
Client Contact: Thomas Palmer	Phone: 800 287 7857	E-Mail: orlette.johnson@testamericainc.com		Page: Page 1 of 1
Company: Groundwater & Environmental Services Inc				Job #:
Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:			
City: Williamsville	TAT Requested (days):			
State, Zip: NY, 14221				
Phone: 518-402-9662(Tel)	PO #: CallOut ID 136076			
Email: tpalmer@gesonline.com	WO #: GES Project # 0901691			
Project Name: Gastown WWTP #915171 - Quarterly Event Desc: Quarterly	Project #: 48002525			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	420.4 - Phenolics, Total Recoverable	8260C - TCL + CP-51 (Stars)	608_Pest - Priority Pollutant Pesticides	8270C - (MOD) TCL SVOA	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	335.4 - Cyanide, Total	SM4500_H+ - pH	1664B - Oil and Grease	300.0_28D - (MOD) Cl, SO4	200.7 - Ca, Mg, K, Na	310.2 - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	A	N	N	N	N	N	B	N	S	N	D	N		
Post-Carbon 2	5/20	1345	G	Water	n	n	X	X	X	X	X	X	X	X	X	X					
Pre-Carbon	5/20	1400	G	Water	n	n		X									X	X	X		
Outside Sump	5/20	1410	G	Water	n	n		X													

480-170188 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	5/20 1425	GES			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/20/20 14:25	Company DAB

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 5.6 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

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

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 | 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 TotalAccess

Have a Question? Ask The Expert

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.

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

Table of Contents

Definitions/Glossary

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

Job ID: 480-171384-1

Qualifiers

GC/MS 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.

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

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 3.2º 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.

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

Job ID: 480-171384-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/22/20 15:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/22/20 15:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/22/20 15:29	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/22/20 15:29	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/22/20 15:29	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/22/20 15:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/22/20 15:29	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			06/22/20 15:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/22/20 15:29	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/22/20 15:29	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/22/20 15:29	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/22/20 15:29	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			06/22/20 15:29	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/22/20 15:29	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/22/20 15:29	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/22/20 15:29	1
2-Hexanone	ND		5.0	1.2	ug/L			06/22/20 15:29	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			06/22/20 15:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/22/20 15:29	1
Acetone	ND		10	3.0	ug/L			06/22/20 15:29	1
Benzene	ND		1.0	0.41	ug/L			06/22/20 15:29	1
Bromoform	ND		1.0	0.26	ug/L			06/22/20 15:29	1
Bromomethane	ND		1.0	0.69	ug/L			06/22/20 15:29	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/22/20 15:29	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/22/20 15:29	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/22/20 15:29	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/22/20 15:29	1
Chloroethane	ND		1.0	0.32	ug/L			06/22/20 15:29	1
Chloroform	ND		1.0	0.34	ug/L			06/22/20 15:29	1
Chloromethane	ND	*	1.0	0.35	ug/L			06/22/20 15:29	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/22/20 15:29	1
Cyclohexane	ND		1.0	0.18	ug/L			06/22/20 15:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/22/20 15:29	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/22/20 15:29	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/22/20 15:29	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/22/20 15:29	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/22/20 15:29	1
Methyl acetate	ND		2.5	1.3	ug/L			06/22/20 15:29	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/22/20 15:29	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/22/20 15:29	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/22/20 15:29	1
m,p-Xylene	ND		2.0	0.66	ug/L			06/22/20 15:29	1
Naphthalene	ND		1.0	0.43	ug/L			06/22/20 15:29	1
n-Butylbenzene	ND		1.0	0.64	ug/L			06/22/20 15:29	1
N-Propylbenzene	ND		1.0	0.69	ug/L			06/22/20 15:29	1
o-Xylene	ND		1.0	0.76	ug/L			06/22/20 15:29	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			06/22/20 15:29	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/22/20 15:29	1
Toluene	ND		1.0	0.51	ug/L			06/22/20 15:29	1

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

Job ID: 480-171384-1

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

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		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	1
Trichloroethene	ND		1.0	0.46	ug/L			06/22/20 15:29	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/22/20 15:29	1
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	1
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	1
tert-Butylbenzene	ND		1.0	0.81	ug/L			06/22/20 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*77 - 120*		*06/22/20 15:29*	*1*
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*

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.
Project/Site: Gastown WWTP #915171

Job ID: 480-171384-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		25	21	ug/L			06/22/20 15:52	25
1,1,2,2-Tetrachloroethane	ND		25	5.3	ug/L			06/22/20 15:52	25
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25	7.8	ug/L			06/22/20 15:52	25
1,1,2-Trichloroethane	ND		25	5.8	ug/L			06/22/20 15:52	25
1,1-Dichloroethane	ND		25	9.5	ug/L			06/22/20 15:52	25
1,1-Dichloroethene	ND		25	7.3	ug/L			06/22/20 15:52	25
1,2,4-Trichlorobenzene	ND		25	10	ug/L			06/22/20 15:52	25
1,2,4-Trimethylbenzene	ND		25	19	ug/L			06/22/20 15:52	25
1,2-Dibromo-3-Chloropropane	ND		25	9.8	ug/L			06/22/20 15:52	25
1,2-Dichlorobenzene	ND		25	20	ug/L			06/22/20 15:52	25
1,2-Dichloroethane	ND		25	5.3	ug/L			06/22/20 15:52	25
1,2-Dichloropropane	ND		25	18	ug/L			06/22/20 15:52	25
1,3,5-Trimethylbenzene	ND		25	19	ug/L			06/22/20 15:52	25
1,3-Dichlorobenzene	ND		25	20	ug/L			06/22/20 15:52	25
1,4-Dichlorobenzene	ND		25	21	ug/L			06/22/20 15:52	25
2-Butanone (MEK)	ND		250	33	ug/L			06/22/20 15:52	25
2-Hexanone	ND		130	31	ug/L			06/22/20 15:52	25
4-Isopropyltoluene	ND		25	7.8	ug/L			06/22/20 15:52	25
4-Methyl-2-pentanone (MIBK)	ND		130	53	ug/L			06/22/20 15:52	25
Acetone	ND		250	75	ug/L			06/22/20 15:52	25
Bromoform	ND		25	6.5	ug/L			06/22/20 15:52	25
Bromomethane	ND		25	17	ug/L			06/22/20 15:52	25
Carbon disulfide	ND		25	4.8	ug/L			06/22/20 15:52	25
Carbon tetrachloride	ND		25	6.8	ug/L			06/22/20 15:52	25
Chlorobenzene	ND		25	19	ug/L			06/22/20 15:52	25
Dibromochloromethane	ND		25	8.0	ug/L			06/22/20 15:52	25
Chloroethane	ND		25	8.0	ug/L			06/22/20 15:52	25
Chloroform	**10**	**J**	25	8.5	ug/L			06/22/20 15:52	25
Chloromethane	ND	*	25	8.8	ug/L			06/22/20 15:52	25
cis-1,2-Dichloroethene	ND		25	20	ug/L			06/22/20 15:52	25
Cyclohexane	ND		25	4.5	ug/L			06/22/20 15:52	25
Bromodichloromethane	ND		25	9.8	ug/L			06/22/20 15:52	25
Dichlorodifluoromethane	ND		25	17	ug/L			06/22/20 15:52	25
Ethylbenzene	**26**		25	19	ug/L			06/22/20 15:52	25
1,2-Dibromoethane	ND		25	18	ug/L			06/22/20 15:52	25
Isopropylbenzene	ND		25	20	ug/L			06/22/20 15:52	25
Methyl acetate	ND		63	33	ug/L			06/22/20 15:52	25
Methyl tert-butyl ether	ND		25	4.0	ug/L			06/22/20 15:52	25
Methylcyclohexane	ND		25	4.0	ug/L			06/22/20 15:52	25
Methylene Chloride	ND		25	11	ug/L			06/22/20 15:52	25
m,p-Xylene	**130**		50	17	ug/L			06/22/20 15:52	25
Naphthalene	**630**		25	11	ug/L			06/22/20 15:52	25
n-Butylbenzene	ND		25	16	ug/L			06/22/20 15:52	25
N-Propylbenzene	ND		25	17	ug/L			06/22/20 15:52	25
o-Xylene	**93**		25	19	ug/L			06/22/20 15:52	25
sec-Butylbenzene	ND		25	19	ug/L			06/22/20 15:52	25
Tetrachloroethene	ND		25	9.0	ug/L			06/22/20 15:52	25
Toluene	**520**		25	13	ug/L			06/22/20 15:52	25
trans-1,2-Dichloroethene	ND		25	23	ug/L			06/22/20 15:52	25

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

Job ID: 480-171384-1

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

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

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*

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

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 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil 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**	**B**	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.
Project/Site: Gastown WWTP #915171

Job ID: 480-171384-1

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 Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			06/22/20 16:15	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			06/22/20 16:15	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			06/22/20 16:15	100
1,1,2-Trichloroethane	ND		100	23	ug/L			06/22/20 16:15	100
1,1-Dichloroethane	ND		100	38	ug/L			06/22/20 16:15	100
1,1-Dichloroethene	ND		100	29	ug/L			06/22/20 16:15	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			06/22/20 16:15	100
1,2,4-Trimethylbenzene	ND		100	75	ug/L			06/22/20 16:15	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			06/22/20 16:15	100
1,2-Dichlorobenzene	ND		100	79	ug/L			06/22/20 16:15	100
1,2-Dichloroethane	ND		100	21	ug/L			06/22/20 16:15	100
1,2-Dichloropropane	ND		100	72	ug/L			06/22/20 16:15	100
1,3,5-Trimethylbenzene	ND		100	77	ug/L			06/22/20 16:15	100
1,3-Dichlorobenzene	ND		100	78	ug/L			06/22/20 16:15	100
1,4-Dichlorobenzene	ND		100	84	ug/L			06/22/20 16:15	100
2-Butanone (MEK)	ND		1000	130	ug/L			06/22/20 16:15	100
2-Hexanone	ND		500	120	ug/L			06/22/20 16:15	100
4-Isopropyltoluene	ND		100	31	ug/L			06/22/20 16:15	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			06/22/20 16:15	100
Acetone	ND		1000	300	ug/L			06/22/20 16:15	100
Benzene	**7900**		100	41	ug/L			06/22/20 16:15	100
Bromoform	ND		100	26	ug/L			06/22/20 16:15	100
Bromomethane	ND		100	69	ug/L			06/22/20 16:15	100
Carbon disulfide	ND		100	19	ug/L			06/22/20 16:15	100
Carbon tetrachloride	ND		100	27	ug/L			06/22/20 16:15	100
Chlorobenzene	ND		100	75	ug/L			06/22/20 16:15	100
Dibromochloromethane	ND		100	32	ug/L			06/22/20 16:15	100
Chloroethane	ND		100	32	ug/L			06/22/20 16:15	100
Chloroform	**37**	**J**	100	34	ug/L			06/22/20 16:15	100
Chloromethane	ND	*	100	35	ug/L			06/22/20 16:15	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			06/22/20 16:15	100
Cyclohexane	ND		100	18	ug/L			06/22/20 16:15	100
Bromodichloromethane	ND		100	39	ug/L			06/22/20 16:15	100
Dichlorodifluoromethane	ND		100	68	ug/L			06/22/20 16:15	100
Ethylbenzene	**450**		100	74	ug/L			06/22/20 16:15	100
1,2-Dibromoethane	ND		100	73	ug/L			06/22/20 16:15	100
Isopropylbenzene	ND		100	79	ug/L			06/22/20 16:15	100
Methyl acetate	ND		250	130	ug/L			06/22/20 16:15	100
Methyl tert-butyl ether	ND		100	16	ug/L			06/22/20 16:15	100
Methylcyclohexane	ND		100	16	ug/L			06/22/20 16:15	100
Methylene Chloride	ND		100	44	ug/L			06/22/20 16:15	100
m,p-Xylene	**220**		200	66	ug/L			06/22/20 16:15	100
Naphthalene	**1100**		100	43	ug/L			06/22/20 16:15	100
n-Butylbenzene	ND		100	64	ug/L			06/22/20 16:15	100
N-Propylbenzene	ND		100	69	ug/L			06/22/20 16:15	100
o-Xylene	**110**		100	76	ug/L			06/22/20 16:15	100
sec-Butylbenzene	ND		100	75	ug/L			06/22/20 16:15	100
Tetrachloroethene	ND		100	36	ug/L			06/22/20 16:15	100
Toluene	**1000**		100	51	ug/L			06/22/20 16:15	100

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

Job ID: 480-171384-1

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 Organic Compounds by GC/MS (Continued)

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*

Lab Chronicle

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

Job ID: 480-171384-1

Client Sample ID: Post CARBON 2

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

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

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

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

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Water	Cyanide, Total
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

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	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

Sample Summary

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

Job ID: 480-171384-1

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	

CHAIN OF CUSTODY

Client: New York State Dept. of Environmental Conservation

4/5 Laurence Bell Drive Suite 6
Williamsville NY 14221

FED-EX Tracking #	Bottle Order Control #
Lab Quote #	Lab Job #

CLIENT/REPORTING INFORMATION

Groundwater & Environmental Services, Inc.
~~495 Aero Drive, Cheektowaga, NY 14225~~
Project Manager: Thomas Palmer
Phone #: 800-287-7857
PM Email: tpalmer@gesonline.com
Fax #: **866-902-2187**

PROJECT INFORMATION

Project Name: NYSDEC/Tonawanda/NY/ENiagaraSt/126
Project Address: 126 E Niagara St, Tonawanda, NY
Project PSID #: 815731 09/69/-05-220

BILLING INFORMATION

NYSDEC Region 9
NYSDEC Project Manager: Glenn May
Phone #: 716-851-7200
Invoice Instructions
NYSDEC Site No. 915171
Lab Project Manager: Orlette Johnson

REQUESTED ANALYSIS (see Test Code sheet) | **LAB USE ONLY**

Sampler(s) Name: Peter Zaffram

Sampler(s) Name: Peter Zaffram

Lab Sample #	Field ID / Point of Collection (Sys_loc_code)	Depth Interval (ft)	Date Sampled	Time Sampled	Sampler	Matrix	Total # Bottles	number of preserved bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Amber	335.4 - Cyanide, Total	SM4500_H+-pH	8260C - TCL + CP-51 (Stars)	300.0_28D - Cl, SO4	200.7 - Ca, Mg, K, Ha	310.2 - Alkalinity, Total	LAB USE ONLY
	Post Carbon 2	-	6/18/20	1030	P.Z.	WG	5										X	X	X				
	Pre-Carbon	-	6/18/20	1035	P.Z	WG	6												X	X	X	X	
	Outside Sump	-	6/18/20	1100	P.Z.	WG	3												X				

480-171384 Chain of Custody

Turnaround Time (Business Days) — **Approved By (Lab PM) / Date**

- [x] Standard 14 Days _____/_____
- [ ] 1 day RUSH _____/_____
- [ ] Other _____ _____/_____

Laboratory Information

Lab:
Address:
Phone:
Lab PM:
Lab PM Email:

Data Deliverable Information

- [ ] Commercial 'A' (Level 1) = Results Only
- [ ] Commercial 'B" (Level 2) = Results + QC Summary
- [ ] FULLT1 (Level 3 & 4)
- [ ] NJ Reduced = Results + QC Summary + Partial Raw Data
- [ ] Commercial 'C'
- [ ] *NJ Data of Known Quality Protocol Reporting*
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [x] EDD Format _____
- [ ] Other _____

Please Email the EQ EDD Package to ges@equisonline.com
EQEDD Name: NYSDEC/Tonawanda/NY/ENiagaraSt/126_LabReport#.17811.EQEDD.zip

Sample Custody must be documented below each time samples change possession, including courier.

	Relinquished By Sampler:	Date / Time:	Received By:
1		6/18/20 1115	6/18/20 1115
2	Relinquished By :	Date / Time:	Received By:
3	Relinquished By :	Date / Time:	Received By:

Custody Seal Number: [ ] Intact [ ] Not Intact [ ] Preserved where applicable [ ] On Ice **Cooler Temp** _____

Login Sample Receipt Checklist

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

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 | 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 TotalAccess

Have a Question? Ask The Expert

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.

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

Table of Contents

Definitions/Glossary

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

Job ID: 480-173207-1

Qualifiers

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

Case Narrative

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

Job ID: 480-173207-1

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 3.3º 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.
Project/Site: Gastown WWTP #915171

Job ID: 480-173207-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/03/20 22:06	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/03/20 22:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/03/20 22:06	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			08/03/20 22:06	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			08/03/20 22:06	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			08/03/20 22:06	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			08/03/20 22:06	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			08/03/20 22:06	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			08/03/20 22:06	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			08/03/20 22:06	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			08/03/20 22:06	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			08/03/20 22:06	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			08/03/20 22:06	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			08/03/20 22:06	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			08/03/20 22:06	1
2-Butanone (MEK)	ND		10	1.3	ug/L			08/03/20 22:06	1
2-Hexanone	ND		5.0	1.2	ug/L			08/03/20 22:06	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			08/03/20 22:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			08/03/20 22:06	1
Acetone	ND		10	3.0	ug/L			08/03/20 22:06	1
Benzene	ND		1.0	0.41	ug/L			08/03/20 22:06	1
Bromoform	ND		1.0	0.26	ug/L			08/03/20 22:06	1
Bromomethane	ND		1.0	0.69	ug/L			08/03/20 22:06	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/03/20 22:06	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/03/20 22:06	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/03/20 22:06	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/03/20 22:06	1
Chloroethane	ND		1.0	0.32	ug/L			08/03/20 22:06	1
Chloroform	ND		1.0	0.34	ug/L			08/03/20 22:06	1
Chloromethane	ND		1.0	0.35	ug/L			08/03/20 22:06	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/03/20 22:06	1
Cyclohexane	ND		1.0	0.18	ug/L			08/03/20 22:06	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/03/20 22:06	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/03/20 22:06	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/03/20 22:06	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/03/20 22:06	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/03/20 22:06	1
Methyl acetate	ND		2.5	1.3	ug/L			08/03/20 22:06	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/03/20 22:06	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/03/20 22:06	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/03/20 22:06	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/03/20 22:06	1
Naphthalene	ND		1.0	0.43	ug/L			08/03/20 22:06	1
n-Butylbenzene	ND		1.0	0.64	ug/L			08/03/20 22:06	1
N-Propylbenzene	ND		1.0	0.69	ug/L			08/03/20 22:06	1
o-Xylene	ND		1.0	0.76	ug/L			08/03/20 22:06	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			08/03/20 22:06	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/03/20 22:06	1
Toluene	ND		1.0	0.51	ug/L			08/03/20 22:06	1

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

Job ID: 480-173207-1

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

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		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)	*101*		*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	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.10**		0.010	0.0050	mg/L		08/05/20 14:30	08/05/20 18:09	1

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**	**HF**	0.001	0.001	Degrees C			08/10/20 15:11	1

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

Job ID: 480-173207-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			08/03/20 22:29	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			08/03/20 22:29	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			08/03/20 22:29	100
1,1,2-Trichloroethane	ND		100	23	ug/L			08/03/20 22:29	100
1,1-Dichloroethane	ND		100	38	ug/L			08/03/20 22:29	100
1,1-Dichloroethene	ND		100	29	ug/L			08/03/20 22:29	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			08/03/20 22:29	100
1,2,4-Trimethylbenzene	ND		100	75	ug/L			08/03/20 22:29	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			08/03/20 22:29	100
1,2-Dichlorobenzene	ND		100	79	ug/L			08/03/20 22:29	100
1,2-Dichloroethane	ND		100	21	ug/L			08/03/20 22:29	100
1,2-Dichloropropane	ND		100	72	ug/L			08/03/20 22:29	100
1,3,5-Trimethylbenzene	ND		100	77	ug/L			08/03/20 22:29	100
1,3-Dichlorobenzene	ND		100	78	ug/L			08/03/20 22:29	100
1,4-Dichlorobenzene	ND		100	84	ug/L			08/03/20 22:29	100
2-Butanone (MEK)	ND		1000	130	ug/L			08/03/20 22:29	100
2-Hexanone	ND		500	120	ug/L			08/03/20 22:29	100
4-Isopropyltoluene	ND		100	31	ug/L			08/03/20 22:29	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			08/03/20 22:29	100
Acetone	ND		1000	300	ug/L			08/03/20 22:29	100
Benzene	**2600**		100	41	ug/L			08/03/20 22:29	100
Bromoform	ND		100	26	ug/L			08/03/20 22:29	100
Bromomethane	ND		100	69	ug/L			08/03/20 22:29	100
Carbon disulfide	ND		100	19	ug/L			08/03/20 22:29	100
Carbon tetrachloride	ND		100	27	ug/L			08/03/20 22:29	100
Chlorobenzene	ND		100	75	ug/L			08/03/20 22:29	100
Dibromochloromethane	ND		100	32	ug/L			08/03/20 22:29	100
Chloroethane	ND		100	32	ug/L			08/03/20 22:29	100
Chloroform	**170**		100	34	ug/L			08/03/20 22:29	100
Chloromethane	ND		100	35	ug/L			08/03/20 22:29	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			08/03/20 22:29	100
Cyclohexane	ND		100	18	ug/L			08/03/20 22:29	100
Bromodichloromethane	ND		100	39	ug/L			08/03/20 22:29	100
Dichlorodifluoromethane	ND		100	68	ug/L			08/03/20 22:29	100
Ethylbenzene	ND		100	74	ug/L			08/03/20 22:29	100
1,2-Dibromoethane	ND		100	73	ug/L			08/03/20 22:29	100
Isopropylbenzene	ND		100	79	ug/L			08/03/20 22:29	100
Methyl acetate	ND		250	130	ug/L			08/03/20 22:29	100
Methyl tert-butyl ether	ND		100	16	ug/L			08/03/20 22:29	100
Methylcyclohexane	ND		100	16	ug/L			08/03/20 22:29	100
Methylene Chloride	ND		100	44	ug/L			08/03/20 22:29	100
m,p-Xylene	ND		200	66	ug/L			08/03/20 22:29	100
Naphthalene	**120**		100	43	ug/L			08/03/20 22:29	100
n-Butylbenzene	ND		100	64	ug/L			08/03/20 22:29	100
N-Propylbenzene	ND		100	69	ug/L			08/03/20 22:29	100
o-Xylene	ND		100	76	ug/L			08/03/20 22:29	100
sec-Butylbenzene	ND		100	75	ug/L			08/03/20 22:29	100
Tetrachloroethene	ND		100	36	ug/L			08/03/20 22:29	100
Toluene	**230**		100	51	ug/L			08/03/20 22:29	100

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

Job ID: 480-173207-1

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

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		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*
Dibromofluoromethane (Surr)	*100*		*75 - 123*		*08/03/20 22:29*	*100*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**126000**	**B**	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**	**B**	500	100	ug/L		08/04/20 11:04	08/05/20 14:03	1
Sodium	**88900**	**B**	1000	324	ug/L		08/04/20 11:04	08/05/20 14:03	1

General Chemistry

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

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

Job ID: 480-173207-1

Client Sample ID: OUTSIDE SUMP

Date Collected: 07/31/20 14:00
Date Received: 07/31/20 14:55

Lab Sample ID: 480-173207-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			08/03/20 21:42	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			08/03/20 21:42	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			08/03/20 21:42	100
1,1,2-Trichloroethane	ND		100	23	ug/L			08/03/20 21:42	100
1,1-Dichloroethane	ND		100	38	ug/L			08/03/20 21:42	100
1,1-Dichloroethene	ND		100	29	ug/L			08/03/20 21:42	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			08/03/20 21:42	100
1,2,4-Trimethylbenzene	ND		100	75	ug/L			08/03/20 21:42	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			08/03/20 21:42	100
1,2-Dichlorobenzene	ND		100	79	ug/L			08/03/20 21:42	100
1,2-Dichloroethane	ND		100	21	ug/L			08/03/20 21:42	100
1,2-Dichloropropane	ND		100	72	ug/L			08/03/20 21:42	100
1,3,5-Trimethylbenzene	ND		100	77	ug/L			08/03/20 21:42	100
1,3-Dichlorobenzene	ND		100	78	ug/L			08/03/20 21:42	100
1,4-Dichlorobenzene	ND		100	84	ug/L			08/03/20 21:42	100
2-Butanone (MEK)	ND		1000	130	ug/L			08/03/20 21:42	100
2-Hexanone	ND		500	120	ug/L			08/03/20 21:42	100
4-Isopropyltoluene	ND		100	31	ug/L			08/03/20 21:42	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			08/03/20 21:42	100
Acetone	ND		1000	300	ug/L			08/03/20 21:42	100
Benzene	**9400**		100	41	ug/L			08/03/20 21:42	100
Bromoform	ND		100	26	ug/L			08/03/20 21:42	100
Bromomethane	ND		100	69	ug/L			08/03/20 21:42	100
Carbon disulfide	ND		100	19	ug/L			08/03/20 21:42	100
Carbon tetrachloride	ND		100	27	ug/L			08/03/20 21:42	100
Chlorobenzene	ND		100	75	ug/L			08/03/20 21:42	100
Dibromochloromethane	ND		100	32	ug/L			08/03/20 21:42	100
Chloroethane	ND		100	32	ug/L			08/03/20 21:42	100
Chloroform	ND		100	34	ug/L			08/03/20 21:42	100
Chloromethane	ND		100	35	ug/L			08/03/20 21:42	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			08/03/20 21:42	100
Cyclohexane	ND		100	18	ug/L			08/03/20 21:42	100
Bromodichloromethane	ND		100	39	ug/L			08/03/20 21:42	100
Dichlorodifluoromethane	ND		100	68	ug/L			08/03/20 21:42	100
Ethylbenzene	**510**		100	74	ug/L			08/03/20 21:42	100
1,2-Dibromoethane	ND		100	73	ug/L			08/03/20 21:42	100
Isopropylbenzene	ND		100	79	ug/L			08/03/20 21:42	100
Methyl acetate	ND		250	130	ug/L			08/03/20 21:42	100
Methyl tert-butyl ether	ND		100	16	ug/L			08/03/20 21:42	100
Methylcyclohexane	ND		100	16	ug/L			08/03/20 21:42	100
Methylene Chloride	ND		100	44	ug/L			08/03/20 21:42	100
m,p-Xylene	**210**		200	66	ug/L			08/03/20 21:42	100
Naphthalene	**700**		100	43	ug/L			08/03/20 21:42	100
n-Butylbenzene	ND		100	64	ug/L			08/03/20 21:42	100
N-Propylbenzene	ND		100	69	ug/L			08/03/20 21:42	100
o-Xylene	**120**		100	76	ug/L			08/03/20 21:42	100
sec-Butylbenzene	ND		100	75	ug/L			08/03/20 21:42	100
Tetrachloroethene	ND		100	36	ug/L			08/03/20 21:42	100
Toluene	**1000**		100	51	ug/L			08/03/20 21:42	100

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

Job ID: 480-173207-1

Client Sample ID: OUTSIDE SUMP
Date Collected: 07/31/20 14:00
Date Received: 07/31/20 14:55

Lab Sample ID: 480-173207-3
Matrix: Water

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		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*

Lab Chronicle

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

Job ID: 480-173207-1

Client Sample ID: Post-Carbon

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

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

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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
Matrix: Water
Date Collected: 07/31/20 14:00
Date Received: 07/31/20 14:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Wastewater	Cyanide, Total
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

Method Summary

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

Job ID: 480-173207-1

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

Sample Summary

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

Job ID: 480-173207-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-173207-1	Post-Carbon	Wastewater	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	

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: Peter Zaffram	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-148764-28090.1
Client Contact: Thomas Palmer	Phone: 716 553-5179	E-Mail: Orlette.Johnson@Eurofinset.com		Page: Page 1 of 1
Company: Groundwater & Environmental Services Inc				Job #:

Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:
City: Williamsville	TAT Requested (days):
State, Zip: NY, 14221	
Phone: 518-402-9662(Tel)	PO #: CallOut ID 136076
Email: tpalmer@gesonline.com	WO #:
Project Name: Gastown WWTP #915171 - Monthly Event Desc: Monthly	Project #: 48002525
Site: New York	SSOW#:

Analysis Requested

480-173207 Chain of Custody

Preservation Codes:
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
K - EDTA
L - EDA
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	335.4 - Cyanide, Total	SM4500_H+ - pH	8260C - TCL + CP-51 (Stars)	300.0_28D - Cl, SO4	200.7 - Ca, Mg, K, Na	310.2 - Alkalinity, Total	Total Number of container	Special Instructions/Note:
			Preservation Code:				B	N	A	N	D	N		
Post-Carbon 2	7/31/20	1410	G	Water			X	X	X					
Pre-Carbon	7/31/20	1415	G	Water					X	X	X	X		
Outside Sump	7/31/20	1400	G	Water					X					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 7/31/20 1455	Company GES	Received by:	Date/Time: 7/31/20 1455	Company TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Login Sample Receipt Checklist

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

Login Number: 173207 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: 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 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 | 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. Giacomazza

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

Review your project results through TotalAccess

Have a Question? Ask The Expert

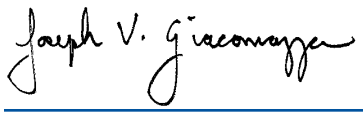
Visit us at: www.eurofinsus.com/Env

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.

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 Manager I
9/2/2020 1:02:36 PM

Table of Contents

Definitions/Glossary

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

Job ID: 480-173998-1

Qualifiers

GC/MS VOA

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

GC 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

Qualifier	Qualifier Description
^	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.
¤	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

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 3.4º 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 (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.

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

Job ID: 480-173998-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			08/20/20 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	3.0	ug/L			08/20/20 17:37	1
Benzene	ND		1.0	0.41	ug/L			08/20/20 17:37	1
Bromoform	ND		1.0	0.26	ug/L			08/20/20 17:37	1
Bromomethane	ND		1.0	0.69	ug/L			08/20/20 17:37	1
Carbon disulfide	ND		1.0	0.19	ug/L			08/20/20 17:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			08/20/20 17:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			08/20/20 17:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			08/20/20 17:37	1
Chloroethane	ND		1.0	0.32	ug/L			08/20/20 17:37	1
Chloroform	ND		1.0	0.34	ug/L			08/20/20 17:37	1
Chloromethane	ND		1.0	0.35	ug/L			08/20/20 17:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			08/20/20 17:37	1
Cyclohexane	ND		1.0	0.18	ug/L			08/20/20 17:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/20/20 17:37	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			08/20/20 17:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			08/20/20 17:37	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			08/20/20 17:37	1
Isopropylbenzene	ND		1.0	0.79	ug/L			08/20/20 17:37	1
Methyl acetate	ND		2.5	1.3	ug/L			08/20/20 17:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			08/20/20 17:37	1
Methylcyclohexane	ND		1.0	0.16	ug/L			08/20/20 17:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			08/20/20 17:37	1
m,p-Xylene	ND		2.0	0.66	ug/L			08/20/20 17:37	1
Naphthalene	ND		1.0	0.43	ug/L			08/20/20 17:37	1
n-Butylbenzene	ND		1.0	0.64	ug/L			08/20/20 17:37	1
N-Propylbenzene	ND		1.0	0.69	ug/L			08/20/20 17:37	1
o-Xylene	ND		1.0	0.76	ug/L			08/20/20 17:37	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			08/20/20 17:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			08/20/20 17:37	1
Toluene	ND		1.0	0.51	ug/L			08/20/20 17:37	1

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

Job ID: 480-173998-1

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

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		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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*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*

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

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*

Client Sample Results

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

Job ID: 480-173998-1

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

Method: 608.3 - Organochlorine Pesticides in Water

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
Total Dissolved Solids	**735**		10.0	4.0	mg/L			08/20/20 17:47	1
Biochemical Oxygen Demand	ND		2.0	2.0	mg/L			08/20/20 02:15	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	4.0	mg/L			08/20/20 14:37	1
pH	**7.1**	**HF**	0.1	0.1	SU			08/26/20 14:02	1
Temperature	**10.5**	**HF**	0.001	0.001	Degrees C			08/26/20 14:02	1

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

Job ID: 480-173998-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		80	66	ug/L			08/20/20 18:01	80
1,1,2,2-Tetrachloroethane	ND		80	17	ug/L			08/20/20 18:01	80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25	ug/L			08/20/20 18:01	80
1,1,2-Trichloroethane	ND		80	18	ug/L			08/20/20 18:01	80
1,1-Dichloroethane	ND		80	30	ug/L			08/20/20 18:01	80
1,1-Dichloroethene	ND		80	23	ug/L			08/20/20 18:01	80
1,2,4-Trichlorobenzene	ND		80	33	ug/L			08/20/20 18:01	80
1,2,4-Trimethylbenzene	ND		80	60	ug/L			08/20/20 18:01	80
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			08/20/20 18:01	80
1,2-Dichlorobenzene	ND		80	63	ug/L			08/20/20 18:01	80
1,2-Dichloroethane	ND		80	17	ug/L			08/20/20 18:01	80
1,2-Dichloropropane	ND		80	58	ug/L			08/20/20 18:01	80
1,3,5-Trimethylbenzene	ND		80	62	ug/L			08/20/20 18:01	80
1,3-Dichlorobenzene	ND		80	62	ug/L			08/20/20 18:01	80
1,4-Dichlorobenzene	ND		80	67	ug/L			08/20/20 18:01	80
2-Butanone (MEK)	ND		800	110	ug/L			08/20/20 18:01	80
2-Hexanone	ND		400	99	ug/L			08/20/20 18:01	80
4-Isopropyltoluene	ND		80	25	ug/L			08/20/20 18:01	80
4-Methyl-2-pentanone (MIBK)	ND		400	170	ug/L			08/20/20 18:01	80
Acetone	**290**	**J**	800	240	ug/L			08/20/20 18:01	80
Benzene	**2200**		80	33	ug/L			08/20/20 18:01	80
Bromoform	ND		80	21	ug/L			08/20/20 18:01	80
Bromomethane	ND		80	55	ug/L			08/20/20 18:01	80
Carbon disulfide	ND		80	15	ug/L			08/20/20 18:01	80
Carbon tetrachloride	ND		80	22	ug/L			08/20/20 18:01	80
Chlorobenzene	ND		80	60	ug/L			08/20/20 18:01	80
Dibromochloromethane	ND		80	26	ug/L			08/20/20 18:01	80
Chloroethane	ND		80	26	ug/L			08/20/20 18:01	80
Chloroform	**72**	**J**	80	27	ug/L			08/20/20 18:01	80
Chloromethane	ND		80	28	ug/L			08/20/20 18:01	80
cis-1,2-Dichloroethene	ND		80	65	ug/L			08/20/20 18:01	80
Cyclohexane	ND		80	14	ug/L			08/20/20 18:01	80
Bromodichloromethane	ND		80	31	ug/L			08/20/20 18:01	80
Dichlorodifluoromethane	ND		80	54	ug/L			08/20/20 18:01	80
Ethylbenzene	**81**		80	59	ug/L			08/20/20 18:01	80
1,2-Dibromoethane	ND		80	58	ug/L			08/20/20 18:01	80
Isopropylbenzene	ND		80	63	ug/L			08/20/20 18:01	80
Methyl acetate	ND		200	100	ug/L			08/20/20 18:01	80
Methyl tert-butyl ether	ND		80	13	ug/L			08/20/20 18:01	80
Methylcyclohexane	ND		80	13	ug/L			08/20/20 18:01	80
Methylene Chloride	ND		80	35	ug/L			08/20/20 18:01	80
m,p-Xylene	ND		160	53	ug/L			08/20/20 18:01	80
Naphthalene	**70**	**J**	80	34	ug/L			08/20/20 18:01	80
n-Butylbenzene	ND		80	51	ug/L			08/20/20 18:01	80
N-Propylbenzene	ND		80	55	ug/L			08/20/20 18:01	80
o-Xylene	ND		80	61	ug/L			08/20/20 18:01	80
sec-Butylbenzene	ND		80	60	ug/L			08/20/20 18:01	80
Tetrachloroethene	ND		80	29	ug/L			08/20/20 18:01	80
Toluene	**130**		80	41	ug/L			08/20/20 18:01	80

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

Job ID: 480-173998-1

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

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		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*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*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*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**67100**		500	100	ug/L		09/01/20 15:52	09/01/20 23:38	1
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
Sulfate	**24.0**		10.0	1.7	mg/L			08/25/20 16:18	5
Alkalinity, Total	**131**		20.0	8.0	mg/L			08/24/20 17:47	2

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

Job ID: 480-173998-1

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 Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			08/20/20 18:26	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			08/20/20 18:26	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			08/20/20 18:26	100
1,1,2-Trichloroethane	ND		100	23	ug/L			08/20/20 18:26	100
1,1-Dichloroethane	ND		100	38	ug/L			08/20/20 18:26	100
1,1-Dichloroethene	ND		100	29	ug/L			08/20/20 18:26	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			08/20/20 18:26	100
1,2,4-Trimethylbenzene	ND		100	75	ug/L			08/20/20 18:26	100
1,2-Dibromo-3-Chloropropane	ND		100	39	ug/L			08/20/20 18:26	100
1,2-Dichlorobenzene	ND		100	79	ug/L			08/20/20 18:26	100
1,2-Dichloroethane	ND		100	21	ug/L			08/20/20 18:26	100
1,2-Dichloropropane	ND		100	72	ug/L			08/20/20 18:26	100
1,3,5-Trimethylbenzene	ND		100	77	ug/L			08/20/20 18:26	100
1,3-Dichlorobenzene	ND		100	78	ug/L			08/20/20 18:26	100
1,4-Dichlorobenzene	ND		100	84	ug/L			08/20/20 18:26	100
2-Butanone (MEK)	ND		1000	130	ug/L			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-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			08/20/20 18:26	100
Acetone	ND		1000	300	ug/L			08/20/20 18:26	100
Benzene	**5800**		100	41	ug/L			08/20/20 18:26	100
Bromoform	ND		100	26	ug/L			08/20/20 18:26	100
Bromomethane	ND		100	69	ug/L			08/20/20 18:26	100
Carbon disulfide	ND		100	19	ug/L			08/20/20 18:26	100
Carbon tetrachloride	ND		100	27	ug/L			08/20/20 18:26	100
Chlorobenzene	ND		100	75	ug/L			08/20/20 18:26	100
Dibromochloromethane	ND		100	32	ug/L			08/20/20 18:26	100
Chloroethane	ND		100	32	ug/L			08/20/20 18:26	100
Chloroform	ND		100	34	ug/L			08/20/20 18:26	100
Chloromethane	ND		100	35	ug/L			08/20/20 18:26	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			08/20/20 18:26	100
Cyclohexane	ND		100	18	ug/L			08/20/20 18:26	100
Bromodichloromethane	ND		100	39	ug/L			08/20/20 18:26	100
Dichlorodifluoromethane	ND		100	68	ug/L			08/20/20 18:26	100
Ethylbenzene	**210**		100	74	ug/L			08/20/20 18:26	100
1,2-Dibromoethane	ND		100	73	ug/L			08/20/20 18:26	100
Isopropylbenzene	ND		100	79	ug/L			08/20/20 18:26	100
Methyl acetate	ND		250	130	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	36	ug/L			08/20/20 18:26	100
Toluene	**510**		100	51	ug/L			08/20/20 18:26	100

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

Job ID: 480-173998-1

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 Organic Compounds by GC/MS (Continued)

Analyte	Result	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)	*117*		*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*

Lab Chronicle

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	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
Lab Sample ID: 480-173998-2
Date Collected: 08/19/20 08:55
Matrix: Wastewater
Date Received: 08/19/20 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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
Lab Sample ID: 480-173998-3
Date Collected: 08/19/20 09:10
Matrix: Water
Date Received: 08/19/20 09:37

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-02-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Wastewater	Cyanide, Total
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

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
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
420.4	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
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

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

Sample Summary

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

Job ID: 480-173998-1

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	
480-173998-3	Outside Sump	Water	08/19/20 09:10	08/19/20 09:37	

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MR	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-123669-28089.1
Client Contact: Thomas Palmer	Phone: 800 287 7857	E-Mail: orlette.johnson@testamericainc.com		Page: Page 1 of 1
Company: Groundwater & Environmental Services Inc				Job #:
Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:			
City: Williamsville	TAT Requested (days): STD			
State, Zip: NY, 14221				
Phone: 518-402-9662(Tel)	PO #: CallOut ID 136076			
Email: tpalmer@gesonline.com	WO #: GES Project # 0901691			
Project Name: Gastown WWTP #915171 - Quarterly Event Desc: Quarterly	Project #: 48002525			
Site: New York	SSOW#:			

Analysis Requested

Preservation Codes:

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 Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	420.4 - Phenolics, Total Recoverable	8260C - TCL + CP-51 (Stars)	608_Pest - Priority Pollutant Pesticides	8270C - (MOD) TCL SVOA	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	335.4 - Cyanide, Total	SM4500_H+ - pH	1664B - Oil and Grease	300.0_28D - (MOD) Cl, SO4	200.7 - Ca, Mg, K, Na	310.2 - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	A	N	N	N	N	N	B	N	S	N	D	N		
Post-Carbon 2	8/19/20	0845	G	Water	n	n	X	X	X	X	X	X	X	X	X	X					
Pre-Carbon	8/19/20	0855	G	Water	n	n		X									X	X	X		
Outside Sump	8/19/20	0910	G	Water	n	n		X													

480-173998 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8/19 0937	GES			
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/19/20	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.4 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

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

Login Number: 173998 **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	3.4 #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	

eurofins | 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

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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.

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.

Wyatt Watson
Project Management Assistant I
10/5/2020 11:59:43 AM

Table of Contents

Definitions/Glossary

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

Job ID: 480-175486-1

Qualifiers

GC/MS VOA

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

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

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 11.8º 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.

Metals
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.
Project/Site: Gastown WWTP #915171

Job ID: 480-175486-1

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 Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/24/20 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	ug/L			09/24/20 05:37	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			09/24/20 05:37	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/24/20 05:37	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/24/20 05:37	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/24/20 05:37	1
2-Hexanone	ND		5.0	1.2	ug/L			09/24/20 05:37	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			09/24/20 05:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/24/20 05:37	1
Acetone	**4.0**	**J**	10	3.0	ug/L			09/24/20 05:37	1
Benzene	ND		1.0	0.41	ug/L			09/24/20 05:37	1
Bromoform	ND		1.0	0.26	ug/L			09/24/20 05:37	1
Bromomethane	ND		1.0	0.69	ug/L			09/24/20 05:37	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/24/20 05:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/24/20 05:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/24/20 05:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/24/20 05:37	1
Chloroethane	ND		1.0	0.32	ug/L			09/24/20 05:37	1
Chloroform	ND		1.0	0.34	ug/L			09/24/20 05:37	1
Chloromethane	ND		1.0	0.35	ug/L			09/24/20 05:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/24/20 05:37	1
Cyclohexane	ND		1.0	0.18	ug/L			09/24/20 05:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/24/20 05:37	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/24/20 05:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/24/20 05:37	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/24/20 05:37	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/24/20 05:37	1
Methyl acetate	ND		2.5	1.3	ug/L			09/24/20 05:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/24/20 05:37	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/24/20 05:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/24/20 05:37	1
m,p-Xylene	ND		2.0	0.66	ug/L			09/24/20 05:37	1
Naphthalene	ND		1.0	0.43	ug/L			09/24/20 05:37	1
n-Butylbenzene	ND		1.0	0.64	ug/L			09/24/20 05:37	1
N-Propylbenzene	ND		1.0	0.69	ug/L			09/24/20 05:37	1
o-Xylene	ND		1.0	0.76	ug/L			09/24/20 05:37	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			09/24/20 05:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/24/20 05:37	1
Toluene	ND		1.0	0.51	ug/L			09/24/20 05:37	1

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

Job ID: 480-175486-1

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 Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		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

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**	**HF**	0.001	0.001	Degrees C			09/24/20 19:25	1

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

Job ID: 480-175486-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			09/24/20 16:43	4
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			09/24/20 16:43	4
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			09/24/20 16:43	4
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			09/24/20 16:43	4
1,1-Dichloroethane	ND		4.0	1.5	ug/L			09/24/20 16:43	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			09/24/20 16:43	4
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			09/24/20 16:43	4
1,2,4-Trimethylbenzene	ND		4.0	3.0	ug/L			09/24/20 16:43	4
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			09/24/20 16:43	4
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			09/24/20 16:43	4
1,2-Dichloroethane	ND		4.0	0.84	ug/L			09/24/20 16:43	4
1,2-Dichloropropane	ND		4.0	2.9	ug/L			09/24/20 16:43	4
1,3,5-Trimethylbenzene	ND		4.0	3.1	ug/L			09/24/20 16:43	4
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			09/24/20 16:43	4
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			09/24/20 16:43	4
2-Butanone (MEK)	**9.3**	**J**	40	5.3	ug/L			09/24/20 16:43	4
2-Hexanone	ND		20	5.0	ug/L			09/24/20 16:43	4
4-Isopropyltoluene	ND		4.0	1.2	ug/L			09/24/20 16:43	4
4-Methyl-2-pentanone (MIBK)	ND		20	8.4	ug/L			09/24/20 16:43	4
Acetone	**37**	**J**	40	12	ug/L			09/24/20 16:43	4
Bromoform	ND		4.0	1.0	ug/L			09/24/20 16:43	4
Bromomethane	ND		4.0	2.8	ug/L			09/24/20 16:43	4
Carbon disulfide	**3.1**	**J**	4.0	0.76	ug/L			09/24/20 16:43	4
Carbon tetrachloride	ND		4.0	1.1	ug/L			09/24/20 16:43	4
Chlorobenzene	ND		4.0	3.0	ug/L			09/24/20 16:43	4
Dibromochloromethane	ND		4.0	1.3	ug/L			09/24/20 16:43	4
Chloroethane	ND		4.0	1.3	ug/L			09/24/20 16:43	4
Chloroform	**230**		4.0	1.4	ug/L			09/24/20 16:43	4
Chloromethane	**9.1**		4.0	1.4	ug/L			09/24/20 16:43	4
cis-1,2-Dichloroethene	ND		4.0	3.2	ug/L			09/24/20 16:43	4
Cyclohexane	ND		4.0	0.72	ug/L			09/24/20 16:43	4
Bromodichloromethane	**9.2**		4.0	1.6	ug/L			09/24/20 16:43	4
Dichlorodifluoromethane	ND		4.0	2.7	ug/L			09/24/20 16:43	4
Ethylbenzene	**57**		4.0	3.0	ug/L			09/24/20 16:43	4
1,2-Dibromoethane	ND		4.0	2.9	ug/L			09/24/20 16:43	4
Isopropylbenzene	ND		4.0	3.2	ug/L			09/24/20 16:43	4
Methyl acetate	ND		10	5.2	ug/L			09/24/20 16:43	4
Methyl tert-butyl ether	ND		4.0	0.64	ug/L			09/24/20 16:43	4
Methylcyclohexane	ND		4.0	0.64	ug/L			09/24/20 16:43	4
Methylene Chloride	**4.3**		4.0	1.8	ug/L			09/24/20 16:43	4
m,p-Xylene	**18**		8.0	2.6	ug/L			09/24/20 16:43	4
Naphthalene	**89**		4.0	1.7	ug/L			09/24/20 16:43	4
n-Butylbenzene	ND		4.0	2.6	ug/L			09/24/20 16:43	4
N-Propylbenzene	ND		4.0	2.8	ug/L			09/24/20 16:43	4
o-Xylene	**13**		4.0	3.0	ug/L			09/24/20 16:43	4
sec-Butylbenzene	ND		4.0	3.0	ug/L			09/24/20 16:43	4
Tetrachloroethene	ND		4.0	1.4	ug/L			09/24/20 16:43	4
Toluene	**71**		4.0	2.0	ug/L			09/24/20 16:43	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			09/24/20 16:43	4

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

Job ID: 480-175486-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		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*

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

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.
Project/Site: Gastown WWTP #915171

Job ID: 480-175486-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		80	66	ug/L			09/25/20 12:30	80
1,1,2,2-Tetrachloroethane	ND		80	17	ug/L			09/25/20 12:30	80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25	ug/L			09/25/20 12:30	80
1,1,2-Trichloroethane	ND		80	18	ug/L			09/25/20 12:30	80
1,1-Dichloroethane	ND		80	30	ug/L			09/25/20 12:30	80
1,1-Dichloroethene	ND		80	23	ug/L			09/25/20 12:30	80
1,2,4-Trichlorobenzene	ND		80	33	ug/L			09/25/20 12:30	80
1,2,4-Trimethylbenzene	ND		80	60	ug/L			09/25/20 12:30	80
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			09/25/20 12:30	80
1,2-Dichlorobenzene	ND		80	63	ug/L			09/25/20 12:30	80
1,2-Dichloroethane	ND		80	17	ug/L			09/25/20 12:30	80
1,2-Dichloropropane	ND		80	58	ug/L			09/25/20 12:30	80
1,3,5-Trimethylbenzene	ND		80	62	ug/L			09/25/20 12:30	80
1,3-Dichlorobenzene	ND		80	62	ug/L			09/25/20 12:30	80
1,4-Dichlorobenzene	ND		80	67	ug/L			09/25/20 12:30	80
2-Butanone (MEK)	ND		800	110	ug/L			09/25/20 12:30	80
2-Hexanone	ND		400	99	ug/L			09/25/20 12:30	80
4-Isopropyltoluene	ND		80	25	ug/L			09/25/20 12:30	80
4-Methyl-2-pentanone (MIBK)	ND		400	170	ug/L			09/25/20 12:30	80
Acetone	ND		800	240	ug/L			09/25/20 12:30	80
Benzene	**3800**		80	33	ug/L			09/25/20 12:30	80
Bromoform	ND		80	21	ug/L			09/25/20 12:30	80
Bromomethane	ND		80	55	ug/L			09/25/20 12:30	80
Carbon disulfide	ND		80	15	ug/L			09/25/20 12:30	80
Carbon tetrachloride	ND		80	22	ug/L			09/25/20 12:30	80
Chlorobenzene	ND		80	60	ug/L			09/25/20 12:30	80
Dibromochloromethane	ND		80	26	ug/L			09/25/20 12:30	80
Chloroethane	ND		80	26	ug/L			09/25/20 12:30	80
Chloroform	**53**	**J**	80	27	ug/L			09/25/20 12:30	80
Chloromethane	ND		80	28	ug/L			09/25/20 12:30	80
cis-1,2-Dichloroethene	ND		80	65	ug/L			09/25/20 12:30	80
Cyclohexane	ND		80	14	ug/L			09/25/20 12:30	80
Bromodichloromethane	ND		80	31	ug/L			09/25/20 12:30	80
Dichlorodifluoromethane	ND		80	54	ug/L			09/25/20 12:30	80
Ethylbenzene	**220**		80	59	ug/L			09/25/20 12:30	80
1,2-Dibromoethane	ND		80	58	ug/L			09/25/20 12:30	80
Isopropylbenzene	ND		80	63	ug/L			09/25/20 12:30	80
Methyl acetate	ND		200	100	ug/L			09/25/20 12:30	80
Methyl tert-butyl ether	ND		80	13	ug/L			09/25/20 12:30	80
Methylcyclohexane	ND		80	13	ug/L			09/25/20 12:30	80
Methylene Chloride	**67**	**J**	80	35	ug/L			09/25/20 12:30	80
m,p-Xylene	**89**	**J**	160	53	ug/L			09/25/20 12:30	80
Naphthalene	**290**		80	34	ug/L			09/25/20 12:30	80
n-Butylbenzene	ND		80	51	ug/L			09/25/20 12:30	80
N-Propylbenzene	ND		80	55	ug/L			09/25/20 12:30	80
o-Xylene	ND		80	61	ug/L			09/25/20 12:30	80
sec-Butylbenzene	ND		80	60	ug/L			09/25/20 12:30	80
Tetrachloroethene	ND		80	29	ug/L			09/25/20 12:30	80
Toluene	**320**		80	41	ug/L			09/25/20 12:30	80

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

Job ID: 480-175486-1

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

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		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*

Lab Chronicle

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

Job ID: 480-175486-1

Client Sample ID: Post-Carbon 2

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	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

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	550986	09/24/20 16:43	CRL	TAL BUF
Total/NA	Analysis	8260C	DL	20	551204	09/25/20 12:06	CRL	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

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Wastewater	Cyanide, Total
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

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

Sample Summary

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

Job ID: 480-175486-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-175486-1	Post-Carbon 2	Wastewater	09/23/20 09:00	09/23/20 09:53	
480-175486-2	Pre-Carbon	Wastewater	09/23/20 09:10	09/23/20 09:53	
480-175486-3	Outside Sump	Water	09/23/20 09:15	09/23/20 09:53	

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MVR	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-123660-28090.1
Client Contact: Thomas Palmer	Phone: 8002877857	E-Mail: orlette.johnson@testamericainc.com		Page: Page 1 of 1
Company: Groundwater & Environmental Services Inc				Job #:

Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:
City: Williamsville	TAT Requested (days): STD
State, Zip: NY, 14221	
Phone: 518-402-9662(Tel)	PO #: CallOut ID 136076
Email: tpalmer@gesonline.com	WO #:
Project Name: Gastown WWTP #915171 - Monthly Event Desc: Monthly	Project #: 48002525
Site: New York	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	335.4 - Cyanide, Total	SM4500_H+ - pH	8260C - TCL + CP-51 (Stars)	300.0_28D - Cl, SO4	200.7 - Ca, Mg, K, Na	310.2 - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:				B	N	A	N	D	N		
Post-Carbon 2	9/23	0900	G	Water	N	N	X	X	X					
Pre-Carbon		0910	G	Water	N	N			X	X	X	X		
Outside Sump		0915	G	Water	N	N			X					

480-175486 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 9/23 0953	Company: GES	Received by:	Date/Time: 9/23/20 0953	Company: TAB
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 11.8 #1 ICE

Ver: 01/16/2019

10/5/2020

Login Sample Receipt Checklist

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

Login Number: 175486 **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	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	

eurofins | 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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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.

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
10/30/2020 5:16:20 AM

Table of Contents

Definitions/Glossary

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

Qualifiers

GC/MS VOA

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

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 4.7º 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.

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

Job ID: 480-176831-1

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 Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			10/22/20 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	1.2	ug/L			10/22/20 13:25	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			10/22/20 13:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			10/22/20 13:25	1
Acetone	ND		10	3.0	ug/L			10/22/20 13:25	1
Benzene	ND		1.0	0.41	ug/L			10/22/20 13:25	1
Bromoform	ND		1.0	0.26	ug/L			10/22/20 13:25	1
Bromomethane	ND		1.0	0.69	ug/L			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	ug/L			10/22/20 13:25	1
Chlorobenzene	ND		1.0	0.75	ug/L			10/22/20 13:25	1
Dibromochloromethane	ND		1.0	0.32	ug/L			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	ug/L			10/22/20 13:25	1
Chloromethane	ND		1.0	0.35	ug/L			10/22/20 13:25	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			10/22/20 13:25	1
Cyclohexane	ND		1.0	0.18	ug/L			10/22/20 13:25	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/22/20 13:25	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			10/22/20 13:25	1
Ethylbenzene	ND		1.0	0.74	ug/L			10/22/20 13:25	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			10/22/20 13:25	1
Isopropylbenzene	ND		1.0	0.79	ug/L			10/22/20 13:25	1
Methyl acetate	ND		2.5	1.3	ug/L			10/22/20 13:25	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			10/22/20 13:25	1
Methylcyclohexane	ND		1.0	0.16	ug/L			10/22/20 13:25	1
Methylene Chloride	ND		1.0	0.44	ug/L			10/22/20 13:25	1
m,p-Xylene	ND		2.0	0.66	ug/L			10/22/20 13:25	1
Naphthalene	ND		1.0	0.43	ug/L			10/22/20 13:25	1
n-Butylbenzene	ND		1.0	0.64	ug/L			10/22/20 13:25	1
N-Propylbenzene	ND		1.0	0.69	ug/L			10/22/20 13:25	1
o-Xylene	ND		1.0	0.76	ug/L			10/22/20 13:25	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			10/22/20 13:25	1
Tetrachloroethene	ND		1.0	0.36	ug/L			10/22/20 13:25	1
Toluene	ND		1.0	0.51	ug/L			10/22/20 13:25	1

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

Job ID: 480-176831-1

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 Organic Compounds by GC/MS (Continued)

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**	**HF**	0.001	0.001	Degrees C			10/22/20 14:22	1

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

Job ID: 480-176831-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		20	16	ug/L			10/22/20 15:24	20
1,1,2,2-Tetrachloroethane	ND		20	4.2	ug/L			10/22/20 15:24	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20	6.2	ug/L			10/22/20 15:24	20
1,1,2-Trichloroethane	ND		20	4.6	ug/L			10/22/20 15:24	20
1,1-Dichloroethane	ND		20	7.6	ug/L			10/22/20 15:24	20
1,1-Dichloroethene	ND		20	5.8	ug/L			10/22/20 15:24	20
1,2,4-Trichlorobenzene	ND		20	8.2	ug/L			10/22/20 15:24	20
1,2,4-Trimethylbenzene	ND		20	15	ug/L			10/22/20 15:24	20
1,2-Dibromo-3-Chloropropane	ND		20	7.8	ug/L			10/22/20 15:24	20
1,2-Dichlorobenzene	ND		20	16	ug/L			10/22/20 15:24	20
1,2-Dichloroethane	ND		20	4.2	ug/L			10/22/20 15:24	20
1,2-Dichloropropane	ND		20	14	ug/L			10/22/20 15:24	20
1,3,5-Trimethylbenzene	ND		20	15	ug/L			10/22/20 15:24	20
1,3-Dichlorobenzene	ND		20	16	ug/L			10/22/20 15:24	20
1,4-Dichlorobenzene	ND		20	17	ug/L			10/22/20 15:24	20
2-Butanone (MEK)	ND		200	26	ug/L			10/22/20 15:24	20
2-Hexanone	ND		100	25	ug/L			10/22/20 15:24	20
4-Isopropyltoluene	ND		20	6.2	ug/L			10/22/20 15:24	20
4-Methyl-2-pentanone (MIBK)	ND		100	42	ug/L			10/22/20 15:24	20
Acetone	ND		200	60	ug/L			10/22/20 15:24	20
Benzene	**1000**		20	8.2	ug/L			10/22/20 15:24	20
Bromoform	ND		20	5.2	ug/L			10/22/20 15:24	20
Bromomethane	ND		20	14	ug/L			10/22/20 15:24	20
Carbon disulfide	ND		20	3.8	ug/L			10/22/20 15:24	20
Carbon tetrachloride	ND		20	5.4	ug/L			10/22/20 15:24	20
Chlorobenzene	ND		20	15	ug/L			10/22/20 15:24	20
Dibromochloromethane	ND		20	6.4	ug/L			10/22/20 15:24	20
Chloroethane	ND		20	6.4	ug/L			10/22/20 15:24	20
Chloroform	ND		20	6.8	ug/L			10/22/20 15:24	20
Chloromethane	ND		20	7.0	ug/L			10/22/20 15:24	20
cis-1,2-Dichloroethene	ND		20	16	ug/L			10/22/20 15:24	20
Cyclohexane	ND		20	3.6	ug/L			10/22/20 15:24	20
Bromodichloromethane	ND		20	7.8	ug/L			10/22/20 15:24	20
Dichlorodifluoromethane	ND		20	14	ug/L			10/22/20 15:24	20
Ethylbenzene	**76**		20	15	ug/L			10/22/20 15:24	20
1,2-Dibromoethane	ND		20	15	ug/L			10/22/20 15:24	20
Isopropylbenzene	ND		20	16	ug/L			10/22/20 15:24	20
Methyl acetate	ND		50	26	ug/L			10/22/20 15:24	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			10/22/20 15:24	20
Methylcyclohexane	ND		20	3.2	ug/L			10/22/20 15:24	20
Methylene Chloride	**14**	**J**	20	8.8	ug/L			10/22/20 15:24	20
m,p-Xylene	**33**	**J**	40	13	ug/L			10/22/20 15:24	20
Naphthalene	**65**		20	8.6	ug/L			10/22/20 15:24	20
n-Butylbenzene	ND		20	13	ug/L			10/22/20 15:24	20
N-Propylbenzene	ND		20	14	ug/L			10/22/20 15:24	20
o-Xylene	**20**		20	15	ug/L			10/22/20 15:24	20
sec-Butylbenzene	ND		20	15	ug/L			10/22/20 15:24	20
Tetrachloroethene	ND		20	7.2	ug/L			10/22/20 15:24	20
Toluene	**180**		20	10	ug/L			10/22/20 15:24	20

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

Job ID: 480-176831-1

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

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		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*

Method: 200.7 Rev 4.4 - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**58500**		500	100	ug/L		10/22/20 09:37	10/23/20 17:55	1
Magnesium	**16300**		200	43.4	ug/L		10/22/20 09:37	10/23/20 17:55	1
Potassium	**2190**		500	100	ug/L		10/22/20 09:37	10/27/20 22:19	1
Sodium	**37100**		1000	324	ug/L		10/22/20 09:37	10/23/20 17:55	1

General Chemistry

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

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

Job ID: 480-176831-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		80	66	ug/L			10/21/20 21:52	80
1,1,2,2-Tetrachloroethane	ND		80	17	ug/L			10/21/20 21:52	80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25	ug/L			10/21/20 21:52	80
1,1,2-Trichloroethane	ND		80	18	ug/L			10/21/20 21:52	80
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	80
1,2,4-Trichlorobenzene	ND		80	33	ug/L			10/21/20 21:52	80
1,2,4-Trimethylbenzene	ND		80	60	ug/L			10/21/20 21:52	80
1,2-Dibromo-3-Chloropropane	ND		80	31	ug/L			10/21/20 21:52	80
1,2-Dibromoethane	ND		80	58	ug/L			10/21/20 21:52	80
1,2-Dichlorobenzene	ND		80	63	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
1,3-Dichlorobenzene	ND		80	62	ug/L			10/21/20 21:52	80
1,4-Dichlorobenzene	ND		80	67	ug/L			10/21/20 21:52	80
2-Butanone (MEK)	ND		800	110	ug/L			10/21/20 21:52	80
2-Hexanone	ND		400	99	ug/L			10/21/20 21:52	80
4-Isopropyltoluene	ND		80	25	ug/L			10/21/20 21:52	80
4-Methyl-2-pentanone (MIBK)	ND		400	170	ug/L			10/21/20 21:52	80
Acetone	ND	F2	800	240	ug/L			10/21/20 21:52	80
Benzene	**2800**	**F1**	80	33	ug/L			10/21/20 21:52	80
Bromodichloromethane	ND		80	31	ug/L			10/21/20 21:52	80
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
Chlorobenzene	ND		80	60	ug/L			10/21/20 21:52	80
Chloroethane	ND		80	26	ug/L			10/21/20 21:52	80
Chloroform	ND		80	27	ug/L			10/21/20 21:52	80
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	29	ug/L			10/21/20 21:52	80
Cyclohexane	ND		80	14	ug/L			10/21/20 21:52	80
Dibromochloromethane	ND		80	26	ug/L			10/21/20 21:52	80
Dichlorodifluoromethane	ND		80	54	ug/L			10/21/20 21:52	80
Ethylbenzene	**180**		80	59	ug/L			10/21/20 21:52	80
Isopropylbenzene	ND		80	63	ug/L			10/21/20 21:52	80
m,p-Xylene	**87**	**J**	160	53	ug/L			10/21/20 21:52	80
Methyl acetate	ND	F2 F1	200	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	ND		80	13	ug/L			10/21/20 21:52	80
Methylene Chloride	ND		80	35	ug/L			10/21/20 21:52	80
Naphthalene	**290**		80	34	ug/L			10/21/20 21:52	80
n-Butylbenzene	ND		80	51	ug/L			10/21/20 21:52	80
N-Propylbenzene	ND		80	55	ug/L			10/21/20 21:52	80
o-Xylene	ND		80	61	ug/L			10/21/20 21:52	80
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	80

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

Job ID: 480-176831-1

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

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

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*

Lab Chronicle

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

Job ID: 480-176831-1

Client Sample ID: Post Carbon 2

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	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

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	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

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	Program	Identification Number	Expiration Date
New York	NELAP	10026	10-28-20

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Water	Cyanide, Total
SM 4500 H+ B		Water	pH
SM 4500 H+ B		Water	Temperature

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	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

Sample Summary

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

Job ID: 480-176831-1

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

CHAIN OF CUSTODY

Client: New York State Dept. of Environmental Conservation

FED-EX Tracking #	Bottle Order Control #
Lab Quote #	Lab Job #

CLIENT/REPORTING INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
Groundwater & Environmental Services, Inc. 415 Lawrence Bell Drive, Williamsville, NY 14221 **Project Manager:** Thomas Palmer **Phone #:** 800-287-7857 PM Email: tpalmer@gesonline.com **Fax #:** 866-902-2187	**Project Name:** NYSDEC/Tonawanda/NY/ENiagaraSt/126 **Project Address:** 126 E Niagara St, Tonawanda, NY **Project PSID #:** 815731	**NYSDEC Region 9** **NYSDEC Project Manager:** Glenn May **Phone #:** 716-851-7200 **Invoice Instructions** **NYSDEC Site No.** 915171 **Lab Project Manager:** Orlette Johnson

Sampler(s) Name: Brandon Mikolin / GES

Sampler(s) Name: ———

Lab Sample #	Field ID / Point of Collection (Sys_loc_code)	Depth Interval (ft)	Date Sampled	Time Sampled	Sampler	Matrix	Total # Bottles	number of preserved bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Amber	335.4 - Cyanide, Total	SM4500_H+-pH	8260C - TCL + CP-51 (Stars)	300.0_28D - Cl, SO4	200.7 - Ca, Mg, K, Ha	310.2 - Alkalinity, Total	LAB USE ONLY
	Post Carbon 2		10-20-20	1240	B. Mikolin	WG	5	3	1			1					X	X	X				
	Pre-Carbon		↓	1245	↓	WG	6	3		1		2							X	X	X	X	
	Outside Sump		↓	1250	↓	WG	3	3											X				

Turnaround Time (Business Days) — **Approved By (Lab PM) / Date**

- ☐ Standard 14 Days ____/____
- ☐ 1 day RUSH ____/____
- ☐ Other _____ ____/____

Laboratory Information

Lab: ———
Address: ———
Phone: ———
Lab PM: ———
Lab PM Email: ———

Data Deliverable Information

- ☐ Commercial 'A' (Level 1) = Results Only
- ☐ Commercial 'B' (Level 2) = Results + QC Summary
- ☐ FULLT1 (Level 3 & 4)
- ☐ NJ Reduced = Results + QC Summary + Partial Raw Data
- ☐ Commercial 'C'
- ☐ *NJ Data of Known Quality Protocol Reporting*
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☑ EDD Format _____
- ☐ Other _____

Please Email the EQ EDD Package to ges@equisonline.com

EQEDD Name: NYSDEC/Tonawanda/NY/ENiagaraSt/126_LabReport#.17811.EQEDD.zip

Sample Custody must be documented below each time samples change possession, including courier.

	Relinquished By Sampler:	Date / Time:	Received By:
1	Brandon Mikolin / GES	10/20/20 1355	
2	Relinquished By :	Date / Time:	Received By:
3	Relinquished By :	Date / Time:	Received By: 10/20/20 1355

Custody Seal Number: ☐ Intact ☐ Not Intact ☐ Preserved where applicable ☐ On Ice Cooler Temp _____

TAB Temp 4.7 # 1 ICE

Login Sample Receipt Checklist

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

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 | 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

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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.

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.

Wyatt Watson
Project Management Assistant I
12/4/2020 10:33:31 AM

Table of Contents

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.
¤	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

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 3.2º 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.

Metals
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 qualified 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.
Project/Site: Gastown WWTP #915171

Job ID: 480-178376-1

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

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

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	1.2	ug/L			11/20/20 16:07	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			11/20/20 16:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	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	0.41	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	0.69	ug/L			11/20/20 16:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			11/20/20 16:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			11/20/20 16:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			11/20/20 16:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			11/20/20 16:07	1
Chloroethane	ND		1.0	0.32	ug/L			11/20/20 16:07	1
Chloroform	ND		1.0	0.34	ug/L			11/20/20 16:07	1
Chloromethane	ND		1.0	0.35	ug/L			11/20/20 16:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			11/20/20 16:07	1
Cyclohexane	ND		1.0	0.18	ug/L			11/20/20 16:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			11/20/20 16:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			11/20/20 16:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			11/20/20 16:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			11/20/20 16:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			11/20/20 16:07	1
Methyl acetate	ND		2.5	1.3	ug/L			11/20/20 16:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			11/20/20 16:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			11/20/20 16:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			11/20/20 16:07	1
m,p-Xylene	ND		2.0	0.66	ug/L			11/20/20 16:07	1
Naphthalene	ND		1.0	0.43	ug/L			11/20/20 16:07	1
n-Butylbenzene	ND		1.0	0.64	ug/L			11/20/20 16:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			11/20/20 16:07	1
o-Xylene	ND		1.0	0.76	ug/L			11/20/20 16:07	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			11/20/20 16:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			11/20/20 16:07	1
Toluene	ND		1.0	0.51	ug/L			11/20/20 16:07	1

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

Job ID: 480-178376-1

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

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		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*

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

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*	*Qualifier*	*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*

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

Client Sample ID: Post-Carbon 2
Lab Sample ID: 480-178376-1
Date Collected: 11/18/20 09:15
Matrix: Wastewater
Date Received: 11/18/20 09:45

Method: 608.3 - Organochlorine Pesticides in Water

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

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

Job ID: 480-178376-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	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	4.2	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	8.2	ug/L			11/20/20 16:30	20
1,2,4-Trimethylbenzene	ND		20	15	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	14	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	14	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	5.4	ug/L			11/20/20 16:30	20
Chlorobenzene	ND		20	15	ug/L			11/20/20 16:30	20
Dibromochloromethane	ND		20	6.4	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	7.0	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	14	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	16	ug/L			11/20/20 16:30	20
Methyl acetate	ND		50	26	ug/L			11/20/20 16:30	20
Methyl tert-butyl ether	ND		20	3.2	ug/L			11/20/20 16:30	20
Methylcyclohexane	ND		20	3.2	ug/L			11/20/20 16:30	20
Methylene Chloride	ND		20	8.8	ug/L			11/20/20 16:30	20
m,p-Xylene	**120**		40	13	ug/L			11/20/20 16:30	20
Naphthalene	**300**		20	8.6	ug/L			11/20/20 16:30	20
n-Butylbenzene	ND		20	13	ug/L			11/20/20 16:30	20
N-Propylbenzene	ND		20	14	ug/L			11/20/20 16:30	20
o-Xylene	**72**		20	15	ug/L			11/20/20 16:30	20
sec-Butylbenzene	ND		20	15	ug/L			11/20/20 16:30	20
Tetrachloroethene	ND		20	7.2	ug/L			11/20/20 16:30	20
Toluene	**520**	**F1**	20	10	ug/L			11/20/20 16:30	20
trans-1,2-Dichloroethene	ND		20	18	ug/L			11/20/20 16:30	20

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

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

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 Organic Compounds by GC/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	Qualifier	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.
Project/Site: Gastown WWTP #915171

Job ID: 480-178376-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		80	66	ug/L			11/20/20 16:53	80
1,1,2,2-Tetrachloroethane	ND		80	17	ug/L			11/20/20 16:53	80
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		80	25	ug/L			11/20/20 16:53	80
1,1,2-Trichloroethane	ND		80	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	80
1,2,4-Trichlorobenzene	ND		80	33	ug/L			11/20/20 16:53	80
1,2,4-Trimethylbenzene	ND		80	60	ug/L			11/20/20 16:53	80
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	17	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
1,4-Dichlorobenzene	ND		80	67	ug/L			11/20/20 16:53	80
2-Butanone (MEK)	ND		800	110	ug/L			11/20/20 16:53	80
2-Hexanone	ND		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	15	ug/L			11/20/20 16:53	80
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
Dibromochloromethane	ND		80	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
Chloromethane	ND		80	28	ug/L			11/20/20 16:53	80
cis-1,2-Dichloroethene	ND		80	65	ug/L			11/20/20 16:53	80
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	54	ug/L			11/20/20 16:53	80
Ethylbenzene	**580**		80	59	ug/L			11/20/20 16:53	80
1,2-Dibromoethane	ND		80	58	ug/L			11/20/20 16:53	80
Isopropylbenzene	ND		80	63	ug/L			11/20/20 16:53	80
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
Methylcyclohexane	ND		80	13	ug/L			11/20/20 16:53	80
Methylene Chloride	ND		80	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	34	ug/L			11/20/20 16:53	80
n-Butylbenzene	ND		80	51	ug/L			11/20/20 16:53	80
N-Propylbenzene	ND		80	55	ug/L			11/20/20 16:53	80
o-Xylene	**160**		80	61	ug/L			11/20/20 16:53	80
sec-Butylbenzene	ND		80	60	ug/L			11/20/20 16:53	80
Tetrachloroethene	ND		80	29	ug/L			11/20/20 16:53	80
Toluene	**1500**		80	41	ug/L			11/20/20 16:53	80
trans-1,2-Dichloroethene	ND		80	72	ug/L			11/20/20 16:53	80

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

Job ID: 480-178376-1

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

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

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 Organic Compounds by GC/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*

Lab Chronicle

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

Job ID: 480-178376-1

Client Sample ID: Post-Carbon 2

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	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

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	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

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Wastewater	Cyanide, Total
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

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

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

Method Summary

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

Job ID: 480-178376-1

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	pH	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
Distill/CN	Distillation, Cyanide	None	TAL BUF

Protocol References:

1664A = EPA-821-98-002

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

EPA = US Environmental Protection Agency

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

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

Sample Summary

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

Job ID: 480-178376-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
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	

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

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: MR	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-123669-28089.1
Client Contact: Thomas Palmer	Phone: 8002877857	E-Mail: orlette.johnson@testamericainc.com		Page: Page 1 of 1
Company: Groundwater & Environmental Services Inc				Job #:

Address: 415 Lawrence Bell Drive Suite 6	Due Date Requested:
City: Williamsville	TAT Requested (days): STD.
State, Zip: NY, 14221	
Phone: 518-402-9662(Tel)	PO #: CallOut ID 136076
Email: tpalmer@gesonline.com	WO #: GES Project # 0901691
Project Name: Gastown WWTP #915171 - Quarterly Event Desc: Quarterly	Project #: 48002525
Site: New York	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	420.4 - Phenolics, Total Recoverable	8260C - TCL + CP-51 (Stars)	608_Pest - Priority Pollutant Pesticides	8270C - (MOD) TCL SVOA	5210B - Biochemical Oxygen Demand	2540D - Total Suspended Solids	2540C_Calcd - Total Dissolved Solids	335.4 - Cyanide, Total	SM4500_H+ - pH	1664B - Oil and Grease	300.0_28D - (MOD) Cl, SO4	200.7 - Ca, Mg, K, Na	310.2 - Alkalinity, Total	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	S	A	N	N	N	N	N	B	N	S	N	D	N	X	
Post-Carbon 2	11/18/20	0915	G	Water	n	n	X	X	X	X	X	X	X	X	X	X					
Pre-Carbon	11/18/20	0920	G	Water	n	n		X									X	X	X		
Outside Sump	11/18/20	0930	G	Water	n	n		X													

480-178376 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/18/20 0945	Company: GES	Received by:	Date/Time: 11/18/20 0945	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.2 #1 ICE

Ver: 01/16/2019

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Orlette S	Carrier Tracking No(s):	COC No: 480-60617.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Orlette.Johnson@Eurofinset.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-178376-1
Address: 777 New Durham Road, ,	Due Date Requested: 12/2/2020			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Gastown WWTP #915171	Project #: 48002525			
Site: Gastown WWTP	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

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 Sample (Yes or No)	Perform MS/MSD (Yes or No)	1664A_NP/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Post-Carbon 2 (480-178376-1)	11/18/20	09:15 Eastern		Water			X	2	

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 maintain accreditation in the State of Origin listed above for analysis/tests/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.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
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:	Date/Time:	Company	Received by:	Date/Time:	Company
[illegible]	11/30/20 1700	TA	via FedEx	12/1/20 1000	FedEx
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☒ Yes △ No	Custody Seal No.: 1427161	Cooler Temperature(s) °C and Other Remarks: 2.2°C ID11

Ver: 11/01/2020

Login Sample Receipt Checklist

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	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

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.	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	

eurofins | 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

Authorized for release by:
12/30/2020 3:54:15 PM
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 TotalAccess

Have a Question? Ask The Expert

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.

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.

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

Table of Contents

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

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

Case Narrative

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

Job ID: 480-179496-1

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 3.4º 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.
Project/Site: Gastown WWTP #915171

Job ID: 480-179496-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			12/29/20 13:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			12/29/20 13:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			12/29/20 13:07	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			12/29/20 13:07	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			12/29/20 13:07	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			12/29/20 13:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			12/29/20 13:07	1
1,2,4-Trimethylbenzene	ND		1.0	0.75	ug/L			12/29/20 13:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			12/29/20 13:07	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			12/29/20 13:07	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			12/29/20 13:07	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			12/29/20 13:07	1
1,3,5-Trimethylbenzene	ND		1.0	0.77	ug/L			12/29/20 13:07	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			12/29/20 13:07	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			12/29/20 13:07	1
2-Butanone (MEK)	ND		10	1.3	ug/L			12/29/20 13:07	1
2-Hexanone	ND		5.0	1.2	ug/L			12/29/20 13:07	1
4-Isopropyltoluene	ND		1.0	0.31	ug/L			12/29/20 13:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			12/29/20 13:07	1
Acetone	ND		10	3.0	ug/L			12/29/20 13:07	1
Benzene	ND		1.0	0.41	ug/L			12/29/20 13:07	1
Bromoform	ND		1.0	0.26	ug/L			12/29/20 13:07	1
Bromomethane	ND		1.0	0.69	ug/L			12/29/20 13:07	1
Carbon disulfide	ND		1.0	0.19	ug/L			12/29/20 13:07	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			12/29/20 13:07	1
Chlorobenzene	ND		1.0	0.75	ug/L			12/29/20 13:07	1
Dibromochloromethane	ND		1.0	0.32	ug/L			12/29/20 13:07	1
Chloroethane	ND		1.0	0.32	ug/L			12/29/20 13:07	1
Chloroform	ND		1.0	0.34	ug/L			12/29/20 13:07	1
Chloromethane	ND		1.0	0.35	ug/L			12/29/20 13:07	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			12/29/20 13:07	1
Cyclohexane	ND		1.0	0.18	ug/L			12/29/20 13:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			12/29/20 13:07	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			12/29/20 13:07	1
Ethylbenzene	ND		1.0	0.74	ug/L			12/29/20 13:07	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			12/29/20 13:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			12/29/20 13:07	1
Methyl acetate	ND		2.5	1.3	ug/L			12/29/20 13:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			12/29/20 13:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			12/29/20 13:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			12/29/20 13:07	1
m,p-Xylene	ND		2.0	0.66	ug/L			12/29/20 13:07	1
Naphthalene	ND		1.0	0.43	ug/L			12/29/20 13:07	1
n-Butylbenzene	ND		1.0	0.64	ug/L			12/29/20 13:07	1
N-Propylbenzene	ND		1.0	0.69	ug/L			12/29/20 13:07	1
o-Xylene	ND		1.0	0.76	ug/L			12/29/20 13:07	1
sec-Butylbenzene	ND		1.0	0.75	ug/L			12/29/20 13:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			12/29/20 13:07	1
Toluene	ND		1.0	0.51	ug/L			12/29/20 13:07	1

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

Job ID: 480-179496-1

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

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

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	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	**0.081**		0.010	0.0050	mg/L		12/17/20 19:12	12/18/20 16:27	1

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

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

Job ID: 480-179496-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		40	33	ug/L			12/29/20 13:30	40
1,1,2,2-Tetrachloroethane	ND		40	8.4	ug/L			12/29/20 13:30	40
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		40	12	ug/L			12/29/20 13:30	40
1,1,2-Trichloroethane	ND		40	9.2	ug/L			12/29/20 13:30	40
1,1-Dichloroethane	ND		40	15	ug/L			12/29/20 13:30	40
1,1-Dichloroethene	ND		40	12	ug/L			12/29/20 13:30	40
1,2,4-Trichlorobenzene	ND		40	16	ug/L			12/29/20 13:30	40
1,2,4-Trimethylbenzene	ND		40	30	ug/L			12/29/20 13:30	40
1,2-Dibromo-3-Chloropropane	ND		40	16	ug/L			12/29/20 13:30	40
1,2-Dichlorobenzene	ND		40	32	ug/L			12/29/20 13:30	40
1,2-Dichloroethane	ND		40	8.4	ug/L			12/29/20 13:30	40
1,2-Dichloropropane	ND		40	29	ug/L			12/29/20 13:30	40
1,3,5-Trimethylbenzene	ND		40	31	ug/L			12/29/20 13:30	40
1,3-Dichlorobenzene	ND		40	31	ug/L			12/29/20 13:30	40
1,4-Dichlorobenzene	ND		40	34	ug/L			12/29/20 13:30	40
2-Butanone (MEK)	ND		400	53	ug/L			12/29/20 13:30	40
2-Hexanone	ND		200	50	ug/L			12/29/20 13:30	40
4-Isopropyltoluene	ND		40	12	ug/L			12/29/20 13:30	40
4-Methyl-2-pentanone (MIBK)	ND		200	84	ug/L			12/29/20 13:30	40
Acetone	ND		400	120	ug/L			12/29/20 13:30	40
Benzene	**3600**		40	16	ug/L			12/29/20 13:30	40
Bromoform	ND		40	10	ug/L			12/29/20 13:30	40
Bromomethane	ND		40	28	ug/L			12/29/20 13:30	40
Carbon disulfide	ND		40	7.6	ug/L			12/29/20 13:30	40
Carbon tetrachloride	ND		40	11	ug/L			12/29/20 13:30	40
Chlorobenzene	ND		40	30	ug/L			12/29/20 13:30	40
Dibromochloromethane	ND		40	13	ug/L			12/29/20 13:30	40
Chloroethane	ND		40	13	ug/L			12/29/20 13:30	40
Chloroform	ND		40	14	ug/L			12/29/20 13:30	40
Chloromethane	ND		40	14	ug/L			12/29/20 13:30	40
cis-1,2-Dichloroethene	ND		40	32	ug/L			12/29/20 13:30	40
Cyclohexane	ND		40	7.2	ug/L			12/29/20 13:30	40
Bromodichloromethane	ND		40	16	ug/L			12/29/20 13:30	40
Dichlorodifluoromethane	ND		40	27	ug/L			12/29/20 13:30	40
Ethylbenzene	**89**		40	30	ug/L			12/29/20 13:30	40
1,2-Dibromoethane	ND		40	29	ug/L			12/29/20 13:30	40
Isopropylbenzene	ND		40	32	ug/L			12/29/20 13:30	40
Methyl acetate	ND		100	52	ug/L			12/29/20 13:30	40
Methyl tert-butyl ether	ND		40	6.4	ug/L			12/29/20 13:30	40
Methylcyclohexane	ND		40	6.4	ug/L			12/29/20 13:30	40
Methylene Chloride	**62**		40	18	ug/L			12/29/20 13:30	40
m,p-Xylene	**130**		80	26	ug/L			12/29/20 13:30	40
Naphthalene	**150**		40	17	ug/L			12/29/20 13:30	40
n-Butylbenzene	ND		40	26	ug/L			12/29/20 13:30	40
N-Propylbenzene	ND		40	28	ug/L			12/29/20 13:30	40
o-Xylene	**85**		40	30	ug/L			12/29/20 13:30	40
sec-Butylbenzene	ND		40	30	ug/L			12/29/20 13:30	40
Tetrachloroethene	ND		40	14	ug/L			12/29/20 13:30	40
Toluene	**570**		40	20	ug/L			12/29/20 13:30	40

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

Job ID: 480-179496-1

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

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		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		40	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 - Metals (ICP)

Analyte	Result	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
Magnesium	**39600**		200	43.4	ug/L		12/18/20 10:01	12/21/20 20:07	1
Potassium	**4340**		500	100	ug/L		12/18/20 10:01	12/21/20 20:07	1
Sodium	**100000**		1000	324	ug/L		12/18/20 10:01	12/21/20 20:07	1

General Chemistry

Analyte	Result	Qualifier	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

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

Job ID: 480-179496-1

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

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	82	ug/L			12/18/20 12:46	100
1,1,2,2-Tetrachloroethane	ND		100	21	ug/L			12/18/20 12:46	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	31	ug/L			12/18/20 12:46	100
1,1,2-Trichloroethane	ND		100	23	ug/L			12/18/20 12:46	100
1,1-Dichloroethane	ND		100	38	ug/L			12/18/20 12:46	100
1,1-Dichloroethene	ND		100	29	ug/L			12/18/20 12:46	100
1,2,4-Trichlorobenzene	ND		100	41	ug/L			12/18/20 12:46	100
1,2,4-Trimethylbenzene	ND		100	75	ug/L			12/18/20 12:46	100
1,2-Dibromo-3-Chloropropane	ND	*+	100	39	ug/L			12/18/20 12:46	100
1,2-Dichlorobenzene	ND		100	79	ug/L			12/18/20 12:46	100
1,2-Dichloroethane	ND		100	21	ug/L			12/18/20 12:46	100
1,2-Dichloropropane	ND		100	72	ug/L			12/18/20 12:46	100
1,3,5-Trimethylbenzene	ND		100	77	ug/L			12/18/20 12:46	100
1,3-Dichlorobenzene	ND		100	78	ug/L			12/18/20 12:46	100
1,4-Dichlorobenzene	ND		100	84	ug/L			12/18/20 12:46	100
2-Butanone (MEK)	ND		1000	130	ug/L			12/18/20 12:46	100
2-Hexanone	ND		500	120	ug/L			12/18/20 12:46	100
4-Isopropyltoluene	ND		100	31	ug/L			12/18/20 12:46	100
4-Methyl-2-pentanone (MIBK)	ND		500	210	ug/L			12/18/20 12:46	100
Acetone	ND		1000	300	ug/L			12/18/20 12:46	100
Benzene	**5900**		100	41	ug/L			12/18/20 12:46	100
Bromoform	ND	*+	100	26	ug/L			12/18/20 12:46	100
Bromomethane	ND		100	69	ug/L			12/18/20 12:46	100
Carbon disulfide	ND		100	19	ug/L			12/18/20 12:46	100
Carbon tetrachloride	ND		100	27	ug/L			12/18/20 12:46	100
Chlorobenzene	ND		100	75	ug/L			12/18/20 12:46	100
Dibromochloromethane	ND	*+	100	32	ug/L			12/18/20 12:46	100
Chloroethane	ND		100	32	ug/L			12/18/20 12:46	100
Chloroform	ND		100	34	ug/L			12/18/20 12:46	100
Chloromethane	ND		100	35	ug/L			12/18/20 12:46	100
cis-1,2-Dichloroethene	ND		100	81	ug/L			12/18/20 12:46	100
Cyclohexane	ND		100	18	ug/L			12/18/20 12:46	100
Bromodichloromethane	ND		100	39	ug/L			12/18/20 12:46	100
Dichlorodifluoromethane	ND		100	68	ug/L			12/18/20 12:46	100
Ethylbenzene	**360**		100	74	ug/L			12/18/20 12:46	100
1,2-Dibromoethane	ND		100	73	ug/L			12/18/20 12:46	100
Isopropylbenzene	ND		100	79	ug/L			12/18/20 12:46	100
Methyl acetate	ND		250	130	ug/L			12/18/20 12:46	100
Methyl tert-butyl ether	ND		100	16	ug/L			12/18/20 12:46	100
Methylcyclohexane	ND		100	16	ug/L			12/18/20 12:46	100
Methylene Chloride	**220**		100	44	ug/L			12/18/20 12:46	100
m,p-Xylene	**180**	**J**	200	66	ug/L			12/18/20 12:46	100
Naphthalene	**670**		100	43	ug/L			12/18/20 12:46	100
n-Butylbenzene	ND		100	64	ug/L			12/18/20 12:46	100
N-Propylbenzene	ND		100	69	ug/L			12/18/20 12:46	100
o-Xylene	**97**	**J**	100	76	ug/L			12/18/20 12:46	100
sec-Butylbenzene	ND		100	75	ug/L			12/18/20 12:46	100
Tetrachloroethene	ND		100	36	ug/L			12/18/20 12:46	100
Toluene	**970**		100	51	ug/L			12/18/20 12:46	100

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

Job ID: 480-179496-1

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

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		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		100	46	ug/L			12/18/20 12:46	100
Trichlorofluoromethane	ND		100	88	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*

Lab Chronicle

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

Client Sample ID: Post-Carbon 2
Lab Sample ID: 480-179496-1
Date Collected: 12/16/20 14:45
Matrix: Wastewater
Date Received: 12/16/20 15:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	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
Lab Sample ID: 480-179496-2
Date Collected: 12/16/20 14:50
Matrix: Wastewater
Date Received: 12/16/20 15:10

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared 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	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
335.4	Distill/CN	Wastewater	Cyanide, Total
SM 4500 H+ B		Wastewater	pH
SM 4500 H+ B		Wastewater	Temperature

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	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

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	Asset ID
480-179496-1	Post-Carbon 2	Wastewater	12/16/20 14:45	12/16/20 15:10	
480-179496-2	Pre-Carbon	Wastewater	12/16/20 14:50	12/16/20 15:10	
480-179496-3	OUTSIDE SUMP	Water	12/16/20 15:00	12/16/20 15:10	

CHAIN OF CUSTODY

Client: New York State Dept. of Environmental Conservation

PAGE OF

FED-EX Tracking #	Bottle Order Control #
Lab Quote #	Lab Job #

CLIENT/REPORTING INFORMATION	PROJECT INFORMATION	BILLING INFORMATION
Groundwater & Environmental Services, Inc. 415 Lawrence Bell Drive, Williamsville, NY 14221 **Project Manager:** Thomas Palmer **Phone #:** 800-287-7857 PM Email: tpalmer@gesonline.com **Fax #:** 866-902-2187	**Project Name:** NYSDEC/Tonawanda/NY/ENiagaraSt/126 **Project Address:** 126 E Niagara St, Tonawanda, NY **Project PSID #:** 815731	**NYSDEC Region 9** **NYSDEC Project Manager:** Glenn May **Phone #:** 716-851-7200 **Invoice Instructions** **NYSDEC Site No.** 915171 **Lab Project Manager:** Orlette Johnson

Sampler(s) Name:

Sampler(s) Name:

Lab Sample #	Field ID / Point of Collection (Sys_loc_code)	Depth Interval (ft)	Date Sampled	Time Sampled	Sampler	Matrix	Total # Bottles	number of preserved bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Amber	REQUESTED ANALYSIS (see Test Code sheet): 335.4 - Cyanide, Total	SM4500_H+-pH	8260C - TCL + CP-51 (Stars)	300.0_28D - Cl, SO4	200.7 - Ca, Mg, K, Ha	310.2 - Alkalinity, Total			LAB USE ONLY
	Post Carbon 2		12/16	1445	MR	WG	5	3	1		1	1					X	X	X						
	Pre-Carbon		12/16	1450	MR	WG	6	3		1		2							X	X	X	X			
	Outside Sump		12/16	1500	MR	WG	3	3											X						

Turnaround Time (Business Days) **Approved By (Lab PM) / Date**

- ☐ Standard 14 Days _____/_____
- ☐ 1 day RUSH _____/_____
- ☐ Other _____ _____/_____

Laboratory Information

Lab: _____
Address: _____
Phone: _____
Lab PM: _____
Lab PM Email: _____

Data Deliverable Information

- ☐ Commercial 'A' (Level 1) = Results Only
- ☐ Commercial 'B" (Level 2) = Results + QC Summary
- ☐ FULLT1 (Level 3 & 4)
- ☐ NJ Reduced = Results + QC S... ...Partial Raw Data
- ☐ Commercial 'C'
- ☐ *NJ Data of Known Quality*
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☑ EDD Format _____
- ☐ Other _____

Please Email the EQ EDD Package to ges@equisonline.com

EQEDD Name: NYSDEC/Tonawanda/NY/ENiagaraSt/126_LabReport#.17811.EQEDD.zip

Sample Custody must be documented below each time samples change possession, including courier.

	Relinquished By Sampler:	Date / Time:	Received By:
1		12/16 1510	
2	Relinquished By :	Date / Time:	Received By: 12/16/20 1510
3	Relinquished By :	Date / Time:	Received By: 3,4 #1

Custody Seal Number: ☐ Intact ☐ Not Intact ☐ Preserved where applicable ☐ On Ice Cooler Temp _____

480-179496 Chain of Custody

12/30/2020

Login Sample Receipt Checklist

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

Login Number: 179496 **List Source: Eurofins TestAmerica, Buffalo**
List Number: 1
Creator: 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 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	