

## **Appendix 1**

### **2019 MS4 Stormwater Annual Report**

#### **Water Testing Data**

##### **Part 1 – Laboratory Reports**



Friday, May 03, 2019

Attn: Mr. Luke Whitehouse  
ATC Associates  
290 Roberts St., Suite 301  
East Hartford, CT 06108

Project ID: NEW HAVEN STORMWATER  
SDG ID: GCD02275  
Sample ID#s: CD02275 - CD02281

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in cursive script that reads "Phyllis Shiller".

Phyllis/Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

May 03, 2019

SDG I.D.: GCD02275

Project ID: NEW HAVEN STORMWATER

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Client Id	Lab Id	Matrix
0122	CD02275	STORM WATER
0124	CD02276	STORM WATER
0124X	CD02277	STORM WATER
0125	CD02278	STORM WATER
0126	CD02279	STORM WATER
0127	CD02280	STORM WATER
0128	CD02281	STORM WATER



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# Analysis Report

May 03, 2019

FOR: Attn: Mr. Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date Time  
 04/26/19 9:00  
 04/26/19 14:02

Laboratory Data

SDG ID: GCD02275  
 Phoenix ID: CD02275

Project ID: NEW HAVEN STORMWATER  
 Client ID: 0122

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	04/30/19	CPP	SW6010D
Hardness (CaCO3)	36.1	0.1	mg/L	1	04/30/19		E200.7
Escherichia Coli	7270	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SM9223B-04
Enterococci Bacteria	3080	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Enterolert
Fecal Coliforms MPN	4880	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	04/26/19 18:44	O	SM4500CI-G-00
C.O.D.	65	10	mg/L	1	04/27/19	DA	SM5220D-11
Conductivity	179	5.00	umhos/cm	1	04/27/19	RR/EG	SM2510B-11
MBAS	0.16	0.05	mg/L	1	04/27/19 09:14	EG	SM5540 C-11
Ammonia as Nitrogen	0.37	0.05	mg/L	1	04/30/19	KDB	E350.1
Nitrite-N	0.024	0.010	mg/L	1	04/26/19 17:59	TB	E353.2
Nitrate-N	0.80	0.02	mg/L	1	04/26/19 17:59	TB	E353.2
Oil and Grease by EPA 1664	< 1.4	1.4	mg/L	1	04/30/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	05/02/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	2.95	0.10	mg/L	1	04/30/19	KDB	E351.1
Phosphorus, as P	0.401	0.010	mg/L	1	05/01/19	JR	SM4500PE-11
Total Suspended Solids	36	10	mg/L	2	04/29/19	BJA/EG	SM2540D-11
Turbidity	15.0	0.20	NTU	1	04/26/19 17:59	RWR	SM2130B-11
Total Metals Digestion	Completed				04/29/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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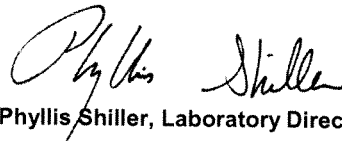
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

May 03, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 03, 2019

FOR: Attn: Mr. Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date Time  
 04/26/19 9:10  
 04/26/19 14:02

## Laboratory Data

SDG ID: GCD02275  
 Phoenix ID: CD02276

Project ID: NEW HAVEN STORMWATER  
 Client ID: 0124

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	0.05	0.05	mg/L	1	04/30/19	CPP	SW6010D
Hardness (CaCO3)	61.0	0.1	mg/L	1	04/30/19		E200.7
Escherichia Coli	>24200	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SM9223B-04
Enterococci Bacteria	4610	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Enterolert
Fecal Coliforms MPN	>24200	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	04/26/19 18:45	O	SM4500CI-G-00
C.O.D.	1090	20	mg/L	2	04/27/19	DA	SM5220D-11
Conductivity	471	5.00	umhos/cm	1	04/27/19	RR/EG	SM2510B-11
MBAS	13.9	0.50	mg/L	10	04/27/19 09:15	EG	SM5540 C-11
Ammonia as Nitrogen	34.2	1.00	mg/L	20	04/30/19	KDB	E350.1
Nitrite-N	0.080	0.010	mg/L	1	04/26/19 18:00	TB	E353.2
Nitrate-N	0.27	0.02	mg/L	1	04/26/19 18:00	TB	E353.2
Oil and Grease by EPA 1664	130	1.4	mg/L	1	04/30/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	05/02/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	78.6	2.00	mg/L	20	04/30/19	KDB	E351.1
Phosphorus, as P	8.51	0.10	mg/L	10	05/01/19	JR	SM4500PE-11
Total Suspended Solids	320	20	mg/L	4	04/29/19	BJA/EG	SM2540D-11
Turbidity	167	0.20	NTU	1	04/26/19 17:59	RWR	SM2130B-11
Total Metals Digestion	Completed				04/29/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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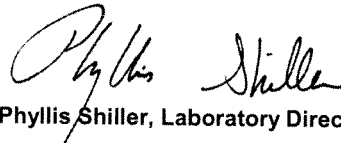
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

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**Phyllis Shiller, Laboratory Director**

**May 03, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



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 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 03, 2019

FOR: Attn: Mr. Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

## Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

## Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date Time  
 04/26/19 9:20  
 04/26/19 14:02

## Laboratory Data

SDG ID: GCD02275  
 Phoenix ID: CD02277

Project ID: NEW HAVEN STORMWATER  
 Client ID: 0124X

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	0.05	0.05	mg/L	1	04/30/19	CPP	SW6010D
Hardness (CaCO3)	23.9	0.1	mg/L	1	04/30/19		E200.7
Escherichia Coli	216	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SM9223B-04
Enterococci Bacteria	134	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Enterolert
Fecal Coliforms MPN	395	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Colilert-18
Total Coliforms	19900	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	04/26/19 18:46	O	SM4500CI-G-00
C.O.D.	99	10	mg/L	1	04/27/19	DA	SM5220D-11
Conductivity	432	5.00	umhos/cm	1	04/27/19	RR/EG	SM2510B-11
MBAS	0.44	0.10	mg/L	2	04/27/19 09:15	EG	SM5540 C-11
Ammonia as Nitrogen	0.92	0.25	mg/L	5	05/01/19	KDB	E350.1
Nitrite-N	0.033	0.010	mg/L	1	04/26/19 18:01	TB	E353.2
Nitrate-N	0.19	0.02	mg/L	1	04/26/19 18:01	TB	E353.2
Oil and Grease by EPA 1664	3.5	1.4	mg/L	1	04/30/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	05/02/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	2.40	0.50	mg/L	5	05/01/19	KDB	E351.1
Phosphorus, as P	0.196	0.010	mg/L	1	05/01/19	JR	SM4500PE-11
Total Suspended Solids	38	10	mg/L	2	04/29/19	BJA/EG	SM2540D-11
Turbidity	67.5	0.20	NTU	1	04/26/19 17:59	RWR	SM2130B-11
Total Metals Digestion	Completed				04/29/19	AG	



Project ID: NEW HAVEN STORMWATER  
Client ID: 0124X

Phoenix I.D.: CD02277

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

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**Phyllis Shiller, Laboratory Director**

**May 03, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



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 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

May 03, 2019

FOR: Attn: Mr. Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date Time  
 04/26/19 9:40  
 04/26/19 14:02

Laboratory Data

SDG ID: GCD02275  
 Phoenix ID: CD02278

Project ID: NEW HAVEN STORMWATER  
 Client ID: 0125

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	0.41	0.05	mg/L	1	04/30/19	CPP	SW6010D
Hardness (CaCO3)	788	0.1	mg/L	1	05/01/19		E200.7
Escherichia Coli	10	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SM9223B-04
Enterococci Bacteria	61	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Enterolert
Fecal Coliforms MPN	10	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Colilert-18
Total Coliforms	934	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	04/26/19 18:47	O	SM4500Cl-G-00
C.O.D.	65	10	mg/L	1	04/27/19	DA	SM5220D-11
Conductivity	4250	5.00	umhos/cm	1	04/27/19	RR/EG	SM2510B-11
MBAS	< 0.05	0.05	mg/L	1	04/27/19 09:18	EG	SM5540 C-11
Ammonia as Nitrogen	0.17	0.10	mg/L	2	05/01/19	KDB	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	04/26/19 18:02	TB	E353.2
Nitrate-N	0.54	0.02	mg/L	1	04/26/19 18:02	TB	E353.2
Oil and Grease by EPA 1664	6.6	1.4	mg/L	1	04/30/19	MSF	E1664A
Salinity	3.1	0.5	ppt	1	05/02/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	0.59	0.20	mg/L	2	05/01/19	KDB	E351.1
Phosphorus, as P	0.067	0.010	mg/L	1	05/01/19	JR	SM4500PE-11
Total Suspended Solids	37	5.0	mg/L	1	04/29/19	BJA/EG	SM2540D-11
Turbidity	7.22	0.20	NTU	1	04/26/19 17:59	RWR	SM2130B-11
Total Metals Digestion	Completed				04/29/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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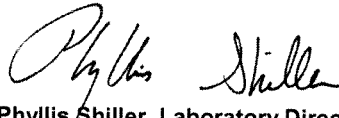
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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**Phyllis Shiller, Laboratory Director**

**May 03, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**

May 03, 2019

FOR: Attn: Mr. Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date

04/26/19  
 04/26/19

Time

11:00  
 14:02

Laboratory Data

SDG ID: GCD02275  
 Phoenix ID: CD02279

Project ID: NEW HAVEN STORMWATER  
 Client ID: 0126

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	0.06	0.05	mg/L	1	04/30/19	CPP	SW6010D
Hardness (CaCO3)	136	0.1	mg/L	1	04/30/19		E200.7
Escherichia Coli	>24200	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SM9223B-04
Enterococci Bacteria	>24200	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Enterolert
Fecal Coliforms MPN	>24200	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	04/26/19 18:47	O	SM4500CI-G-00
C.O.D.	459	10	mg/L	1	04/27/19	DA	SM5220D-11
Conductivity	608	5.00	umhos/cm	1	04/27/19	RR/EG	SM2510B-11
MBAS	1.92	0.10	mg/L	2	04/27/19 09:18	EG	SM5540 C-11
Ammonia as Nitrogen	14.5	0.50	mg/L	10	05/01/19	KDB	E350.1
Nitrite-N	0.093	0.010	mg/L	1	04/26/19 18:06	TB	E353.2
Nitrate-N	0.25	0.02	mg/L	1	04/26/19 18:06	TB	E353.2
Oil and Grease by EPA 1664	27	1.4	mg/L	1	04/30/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	05/02/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	26.6	1.00	mg/L	10	05/01/19	KDB	E351.1
Phosphorus, as P	4.00	0.050	mg/L	5	05/01/19	JR	SM4500PE-11
Total Suspended Solids	130	13	mg/L	2.5	04/29/19	BJA/EG	SM2540D-11
Turbidity	51.1	0.20	NTU	1	04/26/19 17:59	RWR	SM2130B-11
Total Metals Digestion	Completed				04/29/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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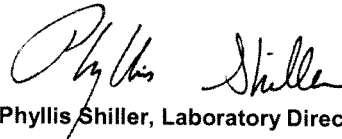
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

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Phyllis Shiller, Laboratory Director

May 03, 2019

Reviewed and Released by: Rashmi Makol, Project Manager



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**Analysis Report**  
 May 03, 2019

FOR: Attn: Mr. Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date      Time  
 04/26/19      11:30  
 04/26/19      14:02

Laboratory Data

SDG ID: GCD02275  
 Phoenix ID: CD02280

Project ID: NEW HAVEN STORMWATER  
 Client ID: 0127

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	04/30/19	CPP	SW6010D
Hardness (CaCO3)	69.8	0.1	mg/L	1	04/30/19		E200.7
Escherichia Coli	703	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SM9223B-04
Enterococci Bacteria	1170	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Enterolert
Fecal Coliforms MPN	24200	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	04/26/19 19:00	O	SM4500Cl-G-00
C.O.D.	20	10	mg/L	1	04/27/19	DA	SM5220D-11
Conductivity	254	5.00	umhos/cm	1	04/27/19	RR/EG	SM2510B-11
MBAS	0.09	0.05	mg/L	1	04/27/19 09:19	EG	SM5540 C-11
Ammonia as Nitrogen	0.18	0.05	mg/L	1	05/01/19	KDB	E350.1
Nitrite-N	0.015	0.010	mg/L	1	04/26/19 19:57	TB	E353.2
Nitrate-N	1.31	0.02	mg/L	1	04/26/19 19:57	TB	E353.2
Oil and Grease by EPA 1664	< 1.4	1.4	mg/L	1	04/30/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	05/02/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	1.12	0.10	mg/L	1	05/01/19	KDB	E351.1
Phosphorus, as P	0.114	0.010	mg/L	1	05/01/19	JR	SM4500PE-11
Total Suspended Solids	< 5.0	5.0	mg/L	1	04/29/19	BJA/EG	SM2540D-11
Turbidity	4.44	0.20	NTU	1	04/26/19 17:59	RWR	SM2130B-11
Total Metals Digestion	Completed				04/29/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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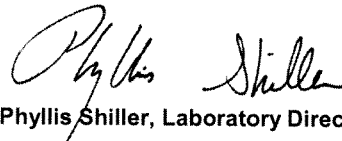
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**May 03, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 May 03, 2019

FOR: Attn: Mr. Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: LB  
 Analyzed by: see "By" below

Date      Time  
 04/26/19      10:30  
 04/26/19      14:02

Laboratory Data

SDG ID: GCD02275  
 Phoenix ID: CD02281

Project ID: NEW HAVEN STORMWATER  
 Client ID: 0128

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	0.07	0.05	mg/L	1	04/30/19	CPP	SW6010D
Hardness (CaCO3)	77.9	0.1	mg/L	1	04/30/19		E200.7
Escherichia Coli	218	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SM9223B-04
Enterococci Bacteria	1070	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Enterolert
Fecal Coliforms MPN	98	10	MPN/100 mls	10	04/26/19 15:55	MLT/KDB	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	04/26/19 15:50	MLT/KDB	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	04/26/19 19:01	O	SM4500CI-G-00
C.O.D.	69	10	mg/L	1	04/27/19	DA	SM5220D-11
Conductivity	578	5.00	umhos/cm	1	04/27/19	RR/EG	SM2510B-11
MBAS	0.13	0.05	mg/L	1	04/27/19 09:19	EG	SM5540 C-11
Ammonia as Nitrogen	0.11	0.10	mg/L	2	05/01/19	KDB	E350.1
Nitrite-N	0.011	0.010	mg/L	1	04/26/19 20:00	TB	E353.2
Nitrate-N	0.29	0.02	mg/L	1	04/26/19 20:00	TB	E353.2
Oil and Grease by EPA 1664	< 1.5	1.5	mg/L	1.1	04/30/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	05/02/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	0.67	0.20	mg/L	2	05/01/19	KDB	E351.1
Phosphorus, as P	0.248	0.010	mg/L	1	05/01/19	JR	SM4500PE-11
Total Suspended Solids	26	5.0	mg/L	1	04/30/19	BJA	SM2540D-11
Turbidity	11.0	0.20	NTU	1	04/26/19 17:59	RWR	SM2130B-11
Total Metals Digestion	Completed				04/29/19	AG	



Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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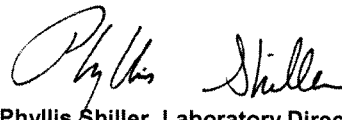
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**May 03, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report  
 May 03, 2019

QA/QC Data

SDG I.D.: GCD02275

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 476804 (mg/L), QC Sample No: CD02266 (CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281)													
<u>ICP Metals - Aqueous</u>													
Boron	BRL	0.05	0.10	0.10	NC	101			98.8			75 - 125	20



**Environmental Laboratories, Inc.**  
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 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

May 03, 2019

## QA/QC Data

SDG I.D.: GCD02275

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 476901 (mg/L), QC Sample No: CD02057 (CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281)													
Oil and Grease by EPA 1664A	BRL	1.4				99.0	97.0	2.0				85 - 115	20
Comment:													
Additional: MS acceptance range 75-125%.													
QA/QC Batch 476597 (NTU), QC Sample No: CD02088 (CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281)													
Turbidity	BRL	0.20	<0.20	<0.20	NC	104						85 - 115	20
QA/QC Batch 476670 (umhos/cm), QC Sample No: CD02128 (CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281)													
Conductivity	BRL	5.00	313	326	4.10	97.7						85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 476744 (mg/L), QC Sample No: CD02201 (CD02275, CD02276, CD02277, CD02278, CD02279, CD02280)													
Total Suspended Solids	BRL	5.0	5.0	<5.0	NC	99.0						85 - 115	20
QA/QC Batch 477093 (mg/L), QC Sample No: CD02260 (CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281)													
Phosphorus, as P	BRL	0.01	0.031	0.038	NC	107			103			85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 476674 (mg/L), QC Sample No: CD02266 (CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281)													
C.O.D.	BRL	10	46	39	NC	104			100			85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 476644 (mg/L), QC Sample No: CD02281 (CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281)													
MBAS	BRL	0.05	0.13	0.12	NC	107			112			85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 476888 (mg/L), QC Sample No: CD02322 (CD02281)													
Total Suspended Solids	BRL	5.0	<5.0	<5.0	NC	90.0						85 - 115	20
QA/QC Batch 476599 (mg/L), QC Sample No: CD02057 (CD02275, CD02276, CD02277, CD02278, CD02279)													
Nitrate-N	BRL	0.02	1.03	1.02	1.00	103			99.6			90 - 110	20
Nitrite as Nitrogen	BRL	0.01	<0.01	<0.01	NC	103			107			90 - 110	20
QA/QC Batch 476625 (mg/L), QC Sample No: CD02280 (CD02280, CD02281)													
Nitrate-N	BRL	0.02	1.31	1.30	0.80	103			99.1			90 - 110	20
Nitrite-N	BRL	0.01	0.015	0.02	NC	104			106			90 - 110	20
QA/QC Batch 476794 (mg/L), QC Sample No: CD01790 (CD02275, CD02276)													
Ammonia as Nitrogen	BRL	0.05	0.06	0.07	NC	94.1			96.1			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	1.85	1.95	5.30	103			87.0			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													
QA/QC Batch 476900 (mg/L), QC Sample No: CD02278 (CD02277, CD02278, CD02279, CD02280, CD02281)													
Ammonia as Nitrogen	BRL	0.05	0.17	0.16	NC	96.3			102			90 - 110	20

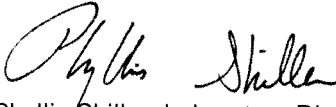
QA/QC Data

SDG I.D.: GCD02275

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Nitrogen Tot Kjeldahl	BRL	0.10	0.59	0.51	14.5	93.3			100			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													
QA/QC Batch 476601 (mg/L), QC Sample No: CD02042 (CD02275, CD02276, CD02277, CD02278, CD02279)													
Chlorine Residual	BRL	0.02	<0.02	<0.02	NC	99.6							
QA/QC Batch 476604 (mg/L), QC Sample No: CD02280 (CD02280, CD02281)													
Chlorine Residual	BRL	0.02	<0.02	<0.02	NC	105							

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 May 03, 2019

Friday, May 03, 2019

Criteria: None

State: CT

# Sample Criteria Exceedances Report

## GCD02275 - ATC-EHDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----	----------	----------------

\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Phoenix Environmental Labs, Inc.

**Client:** ATC Associates

**Project Location:** NEW HAVEN STORMWATER

**Project Number:**

**Laboratory Sample ID(s):** CD02275-CD02281

**Sampling Date(s):** 4/26/2019

**List RCP Methods Used (e.g., 8260, 8270, et cetera)** 6010

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody?  b) Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

**Authorized Signature:** Rashmi Makol **Position:** Project Manager

**Printed Name:** Rashmi Makol **Date:** Friday, May 03, 2019

**Name of Laboratory** Phoenix Environmental Labs, Inc.

**This certification form is to be used for RCP methods only.**



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## RCP Certification Report

May 03, 2019

SDG I.D.: GCD02275

---

### SDG Comments

#### Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Boron is reported as requested on the chain of custody.

### Wet Chemistry Analysis

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

**BECKMAN DU720 #2 05/01/19-1** Jean Rawling, Chemist 05/01/19  
CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281

**BECKMAN DU720 04/27/19-1** Eric Geyer, Chemist 04/27/19  
CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

**HACH DR 5000 04/27/19-1** Derek Allard, Chemist 04/27/19  
CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

#### QC (Batch Specific):

##### **Batch 476597 (CD02088)**

CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281  
All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 476670 (CD02128)**

CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281  
All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 476674 (CD02266)**

CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281  
All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 476744 (CD02201)**

CD02275, CD02276, CD02277, CD02278, CD02279, CD02280  
All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 476888 (CD02322)**

CD02281



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## RCP Certification Report

May 03, 2019

SDG I.D.: GCD02275

---

### **Wet Chemistry Analysis**

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

#### **Batch 476901 (CD02057)**

CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
All LCSD recoveries were within 85 - 115 with the following exceptions: None.  
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.  
Additional: MS acceptance range 75-125%.  
Additional criteria matrix spike acceptance range is 75-125%.

#### **Batch 477093 (CD02260)**

CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

### **QC (Site Specific):**

#### **Batch 476644 (CD02281)**

CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
All MS recoveries were within 75 - 125 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

---

### **ICP Metals Narration**

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### **Instrument:**

##### **BLUE 04/30/19 09:01**

Cindy Pearce, Chemist 04/30/19

CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria. The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

### **QC (Batch Specific):**

#### **Batch 476804 (CD02266)**

CD02275, CD02276, CD02277, CD02278, CD02279, CD02280, CD02281

All LCS recoveries were within 75 - 125 with the following exceptions: None.

---

**LACHAT**





**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## RCP Certification Report

May 03, 2019

SDG I.D.: GCD02275

---

### LACHAT

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

**LACHAT 04/26/19-1** Thomas Budz, Chemist 04/26/19

CD02275, CD02276, CD02277, CD02278, CD02279

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

**LACHAT 04/26/19-2** Thomas Budz, Chemist 04/26/19

CD02280, CD02281

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

#### QC (Batch Specific):

**Batch 476599 (CD02057)**

CD02275, CD02276, CD02277, CD02278, CD02279

All LCS recoveries were within 90 - 110 with the following exceptions: None.

#### QC (Site Specific):

**Batch 476625 (CD02280)**

CD02280, CD02281

All LCS recoveries were within 90 - 110 with the following exceptions: None.  
All MS recoveries were within 90 - 110 with the following exceptions: None.

---

### NITROGEN

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

**LACHAT 04/30/19-1** Kandi Della Bella, Chemist 04/30/19

CD02275, CD02276

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

**LACHAT 05/01/19-1** Kandi Della Bella, Chemist 05/01/19

CD02277, CD02278, CD02279, CD02280, CD02281

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

#### QC (Batch Specific):

**Batch 476794 (CD01790)**



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## RCP Certification Report

May 03, 2019

SDG I.D.: GCD02275

---

### ***NITROGEN***

CD02275, CD02276

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.

#### **QC (Site Specific):**

##### **Batch 476900 (CD02278)**

CD02277, CD02278, CD02279, CD02280, CD02281

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
All MS recoveries were within 75 - 125 with the following exceptions: None.  
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.

---

### ***Temperature Narration***

The samples were received at 5.9C with cooling initiated.  
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

# CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
 Client Services (860) 645-8726

Customer: ATC Group Services  
 Address: 200 Roberts St, Suite 301  
East Hartford, CT

Project: New Haven Stormwater Project P.O.:  
 Report to: Luke Whitehouse  
 Invoice to: ATC  
 QUOTE # CTDAS Rates

Data Delivery/Contact Options:  
 Fax:   
 Phone:   
 Email:  luke.whitehouse@atcgs.com

Coolant: Yes  No   
 IPK  ICE   
 Temp: 7 °C Pg 1 of 1

Client Sample - Information - Identification  
 Sampler's Signature: [Signature] Date: 4-26-17  
 Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WM=Waste Water  
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe Oil=Oil  
 B=Bulk L=Liquid X= (Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
02275	0122	SW	4-26-17 0900	0910	GL VOA Vals [Method] H2O GL Soil container ( ) GL Amber 1000ml [AS is] [HCl] PL AS is [250ml] [500ml] [1000ml] PL H2SO4 [250ml] [500ml] [1000ml] PL NaOH 250ml General Bottle White
02276	0124			0930	
02277	0124X			0940	
02278	0125			1100	
02279	0126			1130	
02280	0127			1130	
02281	0128	SW	4-26-17 1030	1030	

Analysis Request  
 B1-T Garage  
 Handwritten notes: "Handwritten notes: 'B1-T Garage' and 'GL VOA Vals [Method] H2O' are visible in the image. The notes are written in black ink and appear to be a correction or clarification of the printed text. The 'B1-T Garage' note is written vertically along the left side of the table, and the 'GL VOA Vals [Method] H2O' note is written horizontally above the first row of the table. There are also some other handwritten notes in the top right corner of the table area, including 'GL Amber 1000ml [AS is] [HCl]' and 'PL AS is [250ml] [500ml] [1000ml]'."/>

Relinquished by: [Signature] Accepted by: [Signature]  
 Date: 4/27/19 14:02  
 Turnaround Time:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other  
 \* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:  
 State where samples were collected: CT  
 \* SURCHARGE APPLIES

Data Format:  
 Excel  
 PDF  
 GIS/Key  
 EQUIS  
 Other  
 Data Package:  
 Tier II Checklist  
 Full Data Package\*  
 Phoenix Std Report  
 Other

MA:  
 MCP Certification  
 GW-1  
 GW-2  
 GW-3  
 S-1 GW-1  
 S-1 GW-2  
 S-1 GW-3  
 S-2 GW-1  
 S-2 GW-2  
 S-2 GW-3  
 S-3 GW-1  
 S-3 GW-2  
 S-3 GW-3  
 MWRA eSMART  
 Other

CI:  
 RCP Cert  
 GW Protection  
 SW Protection  
 GA Mobility  
 GB Mobility  
 Residential DEC  
 I/C DEC  
 Other

RI:  
 Direct Exposure (Residential)  
 GW  
 Other



Thursday, June 27, 2019

Attn: Luke Whitehouse  
ATC Associates  
290 Roberts St., Suite 301  
East Hartford, CT 06108

Project ID: NH MS-4  
SDG ID: GCD37405  
Sample ID#s: CD37405 - CD37408

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in cursive script that reads "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## SDG Comments

June 27, 2019

SDG I.D.: GCD37405

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The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.



**Environmental Laboratories, Inc.**

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Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

June 27, 2019

SDG I.D.: GCD37405

Project ID: NH MS-4

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Client Id	Lab Id	Matrix
0133	CD37405	STORM WATER
0134	CD37406	STORM WATER
0129	CD37407	STORM WATER
081	CD37408	STORM WATER



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 27, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EH  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by: NH MS-4  
 Received by: CP  
 Analyzed by: see "By" below

Date            Time  
 06/18/19        13:00  
 06/18/19        17:28

Laboratory Data

SDG ID: GCD37405  
 Phoenix ID: CD37405

Project ID: NH MS-4  
 Client ID: 0133

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	0.07	0.05	mg/L	1	06/26/19	CPP	SW6010D
Hardness (CaCO3)	65.6	0.1	mg/L	1	06/27/19		E200.7
Escherichia Coli	211	10	MPN/100 mls	10	06/18/19 18:50	LJ/LJ	SM9223B-04
Enterococci Bacteria	657	10	MPN/100 mls	10	06/18/19 18:45	LJ/LJ	Enterolert
Fecal Coliforms MPN	546	10	MPN/100 mls	10	06/18/19 18:40	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	06/18/19 18:50	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/18/19 20:02	O	SM4500CI-G-00
C.O.D.	123	10	mg/L	1	06/20/19	DA/BJA	SM5220D-11
Conductivity	525	5.00	umhos/cm	1	06/19/19	RR/EG	SM2510B-11
MBAS	0.07	0.05	mg/L	1	06/20/19 02:07	S	SM5540 C-11
Ammonia as Nitrogen	< 0.25	0.25	mg/L	5	06/21/19	KDB	E350.1
Nitrite-N	0.059	0.010	mg/L	1	06/18/19 20:48	TB	E353.2
Nitrate-N	0.26	0.02	mg/L	1	06/18/19 20:48	TB	E353.2
Oil and Grease by EPA 1664	7.5	1.4	mg/L	1	06/22/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/20/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	0.87	0.50	mg/L	5	06/21/19	KDB	E351.1
Phosphorus, as P	0.376	0.020	mg/L	2	06/19/19	MI	SM4500PE-11
Total Suspended Solids	550	17	mg/L	3.3	06/20/19	BMD/BJA	SM2540D-11
Turbidity	445	0.20	NTU	1	06/18/19 20:21	RWR	SM2130B-11
Total Metals Digestion	Completed				06/25/19	AG	

Project ID: NH MS-4  
Client ID: 0133

Phoenix I.D.: CD37405

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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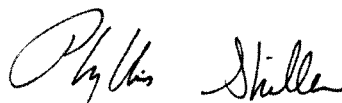
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**June 27, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 27, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EH  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by: NH MS-4  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 06/18/19 13:53  
 06/18/19 17:28

Laboratory Data

SDG ID: GCD37405  
 Phoenix ID: CD37406

Project ID: NH MS-4  
 Client ID: 0134

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/26/19	CPP	SW6010D
Hardness (CaCO3)	29.6	0.1	mg/L	1	06/27/19		E200.7
Escherichia Coli	3260	10	MPN/100 mls	10	06/18/19 18:50	LJ/LJ	SM9223B-04
Enterococci Bacteria	8660	10	MPN/100 mls	10	06/18/19 18:45	LJ/LJ	Enterolert
Fecal Coliforms MPN	3650	10	MPN/100 mls	10	06/18/19 18:40	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	06/18/19 18:50	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/18/19 20:03	O	SM4500CI-G-00
C.O.D.	154	10	mg/L	1	06/20/19	DA/BJA	SM5220D-11
Conductivity	60	5.00	umhos/cm	1	06/19/19	RR/EG	SM2510B-11
MBAS	0.21	0.05	mg/L	1	06/20/19 02:08	S	SM5540 C-11
Ammonia as Nitrogen	< 0.25	0.25	mg/L	5	06/21/19	KDB	E350.1
Nitrite-N	0.021	0.010	mg/L	1	06/18/19 20:49	TB	E353.2
Nitrate-N	0.26	0.02	mg/L	1	06/18/19 20:49	TB	E353.2
Oil and Grease by EPA 1664	12	1.4	mg/L	1	06/22/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/20/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	2.10	0.50	mg/L	5	06/21/19	KDB	E351.1
Phosphorus, as P	0.345	0.020	mg/L	2	06/19/19	MI	SM4500PE-11
Total Suspended Solids	100	5.0	mg/L	1	06/20/19	BMD/BJA	SM2540D-11
Turbidity	113	0.20	NTU	1	06/18/19 20:21	RWR	SM2130B-11
Total Metals Digestion	Completed				06/25/19	AG	

Project ID: NH MS-4  
Client ID: 0134

Phoenix I.D.: CD37406

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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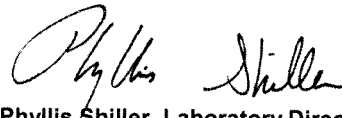
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**June 27, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**

June 27, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EH  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by: NH MS-4  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 06/18/19      14:19  
 06/18/19      17:28

Laboratory Data

SDG ID: GCD37405  
 Phoenix ID: CD37407

Project ID: NH MS-4  
 Client ID: 0129

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/26/19	CPP	SW6010D
Hardness (CaCO3)	6.4	0.1	mg/L	1	06/27/19		E200.7
Escherichia Coli	537	10	MPN/100 mls	10	06/18/19 18:50	LJ/LJ	SM9223B-04
Enterococci Bacteria	988	10	MPN/100 mls	10	06/18/19 18:45	LJ/LJ	Enterolert
Fecal Coliforms MPN	437	10	MPN/100 mls	10	06/18/19 18:40	LJ/LJ	Colilert-18
Total Coliforms	24200	10	MPN/100 mls	10	06/18/19 18:50	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/18/19 20:04	O	SM4500CI-G-00
C.O.D.	14	10	mg/L	1	06/20/19	DA/BJA	SM5220D-11
Conductivity	19	5.00	umhos/cm	1	06/19/19	RR/EG	SM2510B-11
MBAS	< 0.05	0.05	mg/L	1	06/20/19 02:08	S	SM5540 C-11
Ammonia as Nitrogen	0.12	0.05	mg/L	1	06/21/19	KDB	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	06/18/19 20:38	TB	E353.2
Nitrate-N	0.15	0.02	mg/L	1	06/18/19 20:38	TB	E353.2
Oil and Grease by EPA 1664	< 1.4	1.4	mg/L	1	06/22/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/20/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	0.29	0.10	mg/L	1	06/21/19	KDB	E351.1
Phosphorus, as P	0.047	0.010	mg/L	1	06/19/19	MI	SM4500PE-11
Total Suspended Solids	25	5.0	mg/L	1	06/20/19	BMD/BJA	SM2540D-11
Turbidity	18.7	0.20	NTU	1	06/18/19 20:21	RWR	SM2130B-11
Total Metals Digestion	Completed				06/25/19	AG	

Project ID: NH MS-4  
Client ID: 0129

Phoenix I.D.: CD37407

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

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**Phyllis Shiller, Laboratory Director**

**June 27, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

June 27, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

### Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EH  
 Rush Request: Standard  
 P.O.#:

### Custody Information

Collected by: NH MS-4  
 Received by: CP  
 Analyzed by: see "By" below

Date            Time  
 06/18/19        14:58  
 06/18/19        17:28

### Laboratory Data

SDG ID: GCD37405  
 Phoenix ID: CD37408

Project ID: NH MS-4  
 Client ID: 081

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	06/26/19	CPP	SW6010D
Hardness (CaCO3)	11.4	0.1	mg/L	1	06/27/19		E200.7
Escherichia Coli	2060	10	MPN/100 mls	10	06/18/19 18:50	LJ/LJ	SM9223B-04
Enterococci Bacteria	9210	10	MPN/100 mls	10	06/18/19 18:45	LJ/LJ	Enterolert
Fecal Coliforms MPN	934	10	MPN/100 mls	10	06/18/19 18:40	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	06/18/19 18:50	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	06/18/19 20:05	O	SM4500CI-G-00
C.O.D.	16	10	mg/L	1	06/20/19	DA/BJA	SM5220D-11
Conductivity	42	5.00	umhos/cm	1	06/19/19	RR/EG	SM2510B-11
MBAS	< 0.05	0.05	mg/L	1	06/20/19 02:09	S	SM5540 C-11
Ammonia as Nitrogen	0.13	0.05	mg/L	1	06/21/19	KDB	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	06/18/19 20:50	TB	E353.2
Nitrate-N	0.13	0.02	mg/L	1	06/18/19 20:50	TB	E353.2
Oil and Grease by EPA 1664	< 1.4	1.4	mg/L	1	06/22/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	06/20/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	0.63	0.10	mg/L	1	06/21/19	KDB	E351.1
Phosphorus, as P	0.072	0.010	mg/L	1	06/19/19	MI	SM4500PE-11
Total Suspended Solids	8.0	5.0	mg/L	1	06/20/19	BMD/BJA	SM2540D-11
Turbidity	8.88	0.20	NTU	1	06/18/19 20:21	RWR	SM2130B-11
Total Metals Digestion	Completed				06/25/19	AG	

Project ID: NH MS-4  
Client ID: 081

Phoenix I.D.: CD37408

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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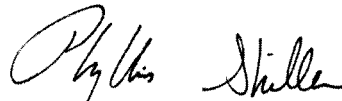
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

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**Phyllis Shiller, Laboratory Director**

**June 27, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

June 27, 2019

## QA/QC Data

SDG I.D.: GCD37405

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 485003 (mg/L), QC Sample No: CD40372 (CD37405, CD37406, CD37407, CD37408)													
<u>ICP Metals - Aqueous</u>													
Boron	BRL	0.05	0.21	0.22	NC	101	102	1.0	103			75 - 125	20



Environmental Laboratories, Inc.  
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 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

June 27, 2019

## QA/QC Data

SDG I.D.: GCD37405

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 483955 (NTU), QC Sample No: CD36332 (CD37405, CD37406, CD37407, CD37408)													
Turbidity	BRL	0.20	65.3	65.9	0.90	111						85 - 115	20
QA/QC Batch 484322 (mg/L), QC Sample No: CD37021 (CD37405, CD37406, CD37407, CD37408)													
C.O.D.	BRL	10	144	144	0	102			93.6			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 484134 (mg/L), QC Sample No: CD37108 (CD37405, CD37406, CD37407, CD37408)													
MBAS	BRL	0.05	<0.05	<0.05	NC	103			100			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 484062 (umhos/cm), QC Sample No: CD37139 (CD37405, CD37406, CD37407, CD37408)													
Conductivity	BRL	5.00	1550	1560	0.60	102						85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 484622 (mg/L), QC Sample No: CD37188 (CD37405, CD37406, CD37407, CD37408)													
Oil and Grease by EPA 1664A	BRL	1.4				98.0	97.0	1.0				85 - 115	20
Comment: Additional: MS acceptance range 75-125%.													
QA/QC Batch 484246 (mg/L), QC Sample No: CD37219 (CD37405, CD37406, CD37407, CD37408)													
Total Suspended Solids	BRL	5.0	2800	2700	3.60	90.0						85 - 115	20
QA/QC Batch 484082 (mg/L), QC Sample No: CD37222 (CD37405, CD37406, CD37407, CD37408)													
Phosphorus, as P	BRL	0.01	3.87	3.87	0	98.6			96.6			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 483964 (mg/L), QC Sample No: CD37407 (CD37405, CD37406, CD37407, CD37408)													
Nitrate-N	BRL	0.02	0.15	0.15	0	102			104			90 - 110	20
Nitrite-N	BRL	0.01	<0.010	<0.01	NC	100			106			90 - 110	20
QA/QC Batch 484260 (mg/L), QC Sample No: CD37224 (CD37405, CD37406, CD37407, CD37408)													
Ammonia as Nitrogen	BRL	0.05	<0.05	<0.05	NC	102			92.5			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	0.83	0.91	9.20	99.3			96.3			85 - 115	20
Comment: TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													
QA/QC Batch 483951 (mg/L), QC Sample No: CD36498 (CD37405, CD37406, CD37407, CD37408)													
Chlorine Residual	BRL	0.02	<0.02	<0.02	NC	105							



QA/QC Data

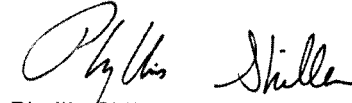
SDG I.D.: GCD37405

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis Shiller, Laboratory Director  
June 27, 2019

Thursday, June 27, 2019

Criteria: CT: GWP, SWP

State: CT

# Sample Criteria Exceedances Report

## GCD37405 - ATC-EH

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## Analysis Comments

June 27, 2019

SDG I.D.: GCD37405

---

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

# CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
 Client Services (860) 645-8726

Cooler: Yes  No   
 IPK  ICE   
 Temp: 10°C Pg of

Data Delivery/Contact Options:

Fax:   
 Phone:   
 Email:

Project P.O.: NH MS-4

Report to: ATC 600P Services  
 Invoice to: ATC 600P Services  
 QUOTE #

Customer: ATC 600P Services  
 Address: 210 ROBERTS STREET EAST HARTFORD CT

This section **MUST** be completed with **Bottle Quantities.**

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
37405	0133	X	6/18/19	1:00	X
37406	0134	X	↓	1:53	X
37407	0129	X	↓	2:19	X
37408	081	X	↓	2:58	X

Matrix Code:	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
DW=Drinking Water					
GW=Ground Water					
SW=Surface Water					
WW=Waste Water					
RAW=Raw Water					
SE=Sediment					
SL=Sludge					
S=Soil					
SD=Solid					
W=Wipe Oil					
B=Bulk					
L=Liquid					
X=X					

Relinquished by: [Signature] Accepted by: [Signature] Date: 6/19/19 Time: 17:08

Comments, Special Requirements or Regulations:

Turnaround Time:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other 5 DAY

RI  Direct Exposure (Residential)  GW  Other

CI  RCP Cert  GW Protection  SW Protection  GA Mobility  GB Mobility  Residential DEC  I/C DEC  Other

MA  MCP Certification  GW-1  GW-2  GW-3  S-1 GW-1  S-1 GW-2  S-1 GW-3  S-2 GW-1  S-2 GW-2  S-2 GW-3  S-3 GW-1  S-3 GW-2  S-3 GW-3  MWRA eSMART  Other

Data Format:  Excel  PDF  GIS/Key  EQUIS  Other

Data Package:  Tier II Checklist  Full Data Package\*  Phoenix Std Report  Other

\* SURCHARGE APPLIES

State where samples were collected: NEW HAVEN



Monday, December 23, 2019

Attn: Luke Whitehouse  
ATC Associates  
290 Roberts St., Suite 301  
East Hartford, CT 06108

Project ID: NEW HAVEN STORMWATER  
SDG ID: GCE83117  
Sample ID#s: CE83117 - CE83129

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in cursive script that reads "Phyllis Shiller".

Phyllis Shiller

Phyllis Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

December 23, 2019

SDG I.D.: GCE83117

Project ID: NEW HAVEN STORMWATER

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Client Id	Lab Id	Matrix
CB13001	CE83117	STORM WATER
CB13015	CE83118	STORM WATER
CB13033	CE83119	STORM WATER
CB13073	CE83120	STORM WATER
CB13089	CE83121	STORM WATER
CB8609	CE83122	STORM WATER
CB9129	CE83123	STORM WATER
CB13175	CE83124	STORM WATER
CB9436	CE83125	STORM WATER
OUTFALL 126	CE83126	STORM WATER
CB13157	CE83127	STORM WATER
CB13205	CE83128	STORM WATER
CB9473	CE83129	STORM WATER



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**Analysis Report**  
 December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/09/19  
 12/09/19

Time

10:25  
 14:44

Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83117

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB13001

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	TH	SW6010D
Hardness (CaCO3)	12.0	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	459	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	2610	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	109	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:32	O	SM4500Cl-G-00
C.O.D.	118	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	297	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.15	0.05	mg/L	1	12/10/19 18:22	MI/EG	SM5540 C-11
Ammonia as Nitrogen	< 0.10	0.10	mg/L	2	12/12/19	KDB	E350.1
Nitrite-N	0.010	0.010	mg/L	1	12/09/19 19:06	TB	E353.2
Nitrate-N	0.05	0.02	mg/L	1	12/09/19 19:06	TB	E353.2
Oil and Grease by EPA 1664	2.0	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	0.91	0.20	mg/L	2	12/12/19	KDB	E351.1
Phosphorus, as P	0.419	0.010	mg/L	1	12/18/19	JR	SM4500PE-11
Total Suspended Solids	90	5.0	mg/L	1	12/10/19	ARG	SM 2540D-11
Turbidity	22.9	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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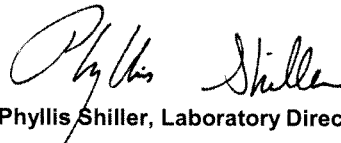
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 12/09/19 10:40  
 12/09/19 14:44

Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83118

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB13015

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	TH	SW6010D
Hardness (CaCO3)	4.5	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	10	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	633	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	10	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	12000	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:35	O	SM4500CI-G-00
C.O.D.	36	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	38	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.12	0.05	mg/L	1	12/10/19 18:23	MI/EG	SM5540 C-11
Ammonia as Nitrogen	< 0.05	0.05	mg/L	1	12/12/19	KDB	E350.1
Nitrite-N	0.013	0.010	mg/L	1	12/09/19 19:13	TB	E353.2
Nitrate-N	0.06	0.02	mg/L	1	12/09/19 19:13	TB	E353.2
Oil and Grease by EPA 1664	< 1.4	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	0.46	0.10	mg/L	1	12/12/19	KDB	E351.1
Phosphorus, as P	0.124	0.010	mg/L	1	12/18/19	JR	SM4500PE-11
Total Suspended Solids	28	5.0	mg/L	1	12/10/19	ARG	SM 2540D-11
Turbidity	15.8	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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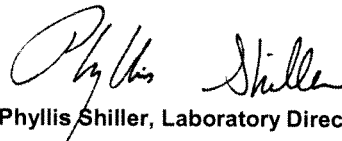
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 12/09/19      10:50  
 12/09/19      14:44

Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83119

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB13033

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	TH	SW6010D
Hardness (CaCO3)	2.7	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	31	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	448	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	74	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	17300	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:35	O	SM4500CI-G-00
C.O.D.	19	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	64	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.12	0.05	mg/L	1	12/10/19 18:24	MI/EG	SM5540 C-11
Ammonia as Nitrogen	< 0.05	0.05	mg/L	1	12/12/19	KDB	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	12/09/19 19:15	TB	E353.2
Nitrate-N	0.07	0.02	mg/L	1	12/09/19 19:15	TB	E353.2
Oil and Grease by EPA 1664	< 1.4	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	0.51	0.10	mg/L	1	12/12/19	KDB	E351.1
Phosphorus, as P	0.075	0.010	mg/L	1	12/18/19	JR	SM4500PE-11
Total Suspended Solids	13	5.0	mg/L	1	12/10/19	ARG	SM 2540D-11
Turbidity	12.4	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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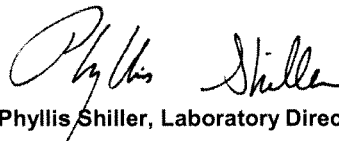
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 12/09/19 11:05  
 12/09/19 14:44

Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83120

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB13073

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	TH	SW6010D
Hardness (CaCO3)	22.4	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	1040	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	3450	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	583	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:36	O	SM4500CI-G-00
C.O.D.	125	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	3460	500	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.14	0.05	mg/L	1	12/10/19 18:25	MI/EG	SM5540 C-11
Ammonia as Nitrogen	0.32	0.10	mg/L	2	12/12/19	KDB	E350.1
Nitrite-N	0.053	0.010	mg/L	1	12/09/19 19:16	TB	E353.2
Nitrate-N	0.15	0.02	mg/L	1	12/09/19 19:16	TB	E353.2
Oil and Grease by EPA 1664	3.6	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	1.70	0.20	mg/L	2	12/12/19	KDB	E351.1
Phosphorus, as P	0.386	0.010	mg/L	1	12/18/19	JR	SM4500PE-11
Total Suspended Solids	70	10	mg/L	2	12/10/19	ARG	SM 2540D-11
Turbidity	93.7	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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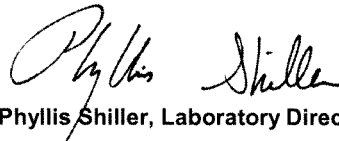
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

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**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 12/09/19 11:23  
 12/09/19 14:44

Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83121

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB13089

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	TH	SW6010D
Hardness (CaCO3)	16.2	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	958	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	3870	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	529	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:37	O	SM4500CI-G-00
C.O.D.	223	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	199	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.12	0.05	mg/L	1	12/10/19 18:29	MI/EG	SM5540 C-11
Ammonia as Nitrogen	< 0.25	0.25	mg/L	5	12/13/19	KDB	E350.1
Nitrite-N	0.013	0.010	mg/L	1	12/09/19 19:17	TB	E353.2
Nitrate-N	0.03	0.02	mg/L	1	12/09/19 19:17	TB	E353.2
Oil and Grease by EPA 1664	< 1.4	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	3.08	0.50	mg/L	5	12/13/19	KDB	E351.1
Phosphorus, as P	1.14	0.050	mg/L	5	12/18/19	JR	SM4500PE-11
Total Suspended Solids	25	5.0	mg/L	1	12/10/19	ARG	SM 2540D-11
Turbidity	18.7	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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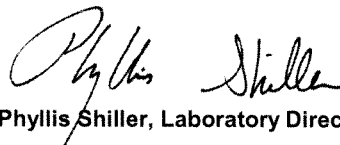
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

## Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

## Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

## Date

12/09/19  
 12/09/19

## Time

11:40  
 14:44

## Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83122

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB8609

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	TH	SW6010D
Hardness (CaCO3)	44.8	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	134	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	1400	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	187	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:37	O	SM4500CI-G-00
C.O.D.	220	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	471	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.13	0.05	mg/L	1	12/10/19 18:30	M/EG	SM5540 C-11
Ammonia as Nitrogen	0.42	0.25	mg/L	5	12/13/19	KDB	E350.1
Nitrite-N	0.071	0.010	mg/L	1	12/09/19 19:18	TB	E353.2
Nitrate-N	0.13	0.02	mg/L	1	12/09/19 19:18	TB	E353.2
Oil and Grease by EPA 1664	8.4	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	2.20	0.50	mg/L	5	12/13/19	KDB	E351.1
Phosphorus, as P	0.553	0.010	mg/L	1	12/18/19	JR	SM4500PE-11
Total Suspended Solids	220	10	mg/L	2	12/10/19	ARG	SM 2540D-11
Turbidity	211	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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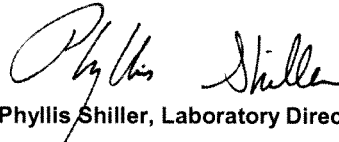
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time

12/09/19 10:11  
 12/09/19 14:44

Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83123

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB9129

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	TH	SW6010D
Hardness (CaCO3)	12.6	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	145	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	3450	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	199	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:38	O	SM4500Cl-G-00
C.O.D.	42	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	174	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.11	0.05	mg/L	1	12/10/19 18:30	MI/EG	SM5540 C-11
Ammonia as Nitrogen	0.16	0.05	mg/L	1	12/13/19	KDB	E350.1
Nitrite-N	< 0.010	0.010	mg/L	1	12/09/19 19:19	TB	E353.2
Nitrate-N	0.06	0.02	mg/L	1	12/09/19 19:19	TB	E353.2
Oil and Grease by EPA 1664	< 1.4	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	1.01	0.10	mg/L	1	12/13/19	KDB	E351.1
Phosphorus, as P	0.182	0.010	mg/L	1	12/18/19	JR	SM4500PE-11
Total Suspended Solids	29	5.0	mg/L	1	12/10/19	ARG	SM 2540D-11
Turbidity	13.0	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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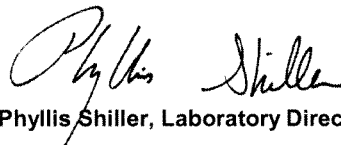
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**

December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time

12/09/19 10:00  
 12/09/19 14:44

Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83124

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB13175

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	TH	SW6010D
Hardness (CaCO3)	12.9	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	2050	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	9800	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	465	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:39	O	SM4500CI-G-00
C.O.D.	70	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	214	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.16	0.05	mg/L	1	12/10/19 18:31	MI/EG	SM5540 C-11
Ammonia as Nitrogen	0.31	0.10	mg/L	2	12/13/19	KDB	E350.1
Nitrite-N	0.030	0.010	mg/L	1	12/09/19 19:20	TB	E353.2
Nitrate-N	0.10	0.02	mg/L	1	12/09/19 19:20	TB	E353.2
Oil and Grease by EPA 1664	2.1	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	1.10	0.20	mg/L	2	12/13/19	KDB	E351.1
Phosphorus, as P	0.257	0.010	mg/L	1	12/18/19	JR	SM4500PE-11
Total Suspended Solids	39	5.0	mg/L	1	12/10/19	ARG	SM 2540D-11
Turbidity	36.7	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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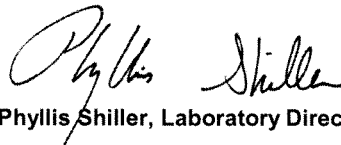
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**

December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/09/19  
 12/09/19

Time

11:56  
 14:44

Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83125

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB9436

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	MGH	SW6010D
Hardness (CaCO3)	55.1	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	987	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	9800	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	520	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:41	O	SM4500CI-G-00
C.O.D.	405	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	293	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.27	0.05	mg/L	1	12/10/19 18:33	MI/EG	SM5540 C-11
Ammonia as Nitrogen	< 0.25	0.25	mg/L	5	12/13/19	KDB	E350.1
Nitrite-N	0.025	0.010	mg/L	1	12/09/19 19:23	TB	E353.2
Nitrate-N	0.04	0.02	mg/L	1	12/09/19 19:23	TB	E353.2
Oil and Grease by EPA 1664	8.2	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	5.83	0.50	mg/L	5	12/13/19	KDB	E351.1
Phosphorus, as P	1.39	0.020	mg/L	2	12/18/19	JR	SM4500PE-11
Total Suspended Solids	240	10	mg/L	2	12/10/19	ARG	SM 2540D-11
Turbidity	404	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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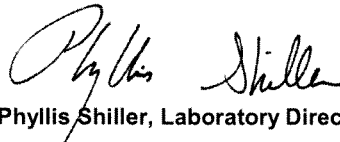
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**





Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

## Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

## Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time

12/09/19 9:46  
 12/09/19 14:44

## Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83126

Project ID: NEW HAVEN STORMWATER  
 Client ID: OUTFALL 126

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	MGH	SW6010D
Hardness (CaCO3)	15.4	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	2600	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	1080	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:42	O	SM4500Cl-G-00
C.O.D.	293	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	205	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.20	0.05	mg/L	1	12/10/19 18:33	MI/EG	SM5540 C-11
Ammonia as Nitrogen	0.51	0.25	mg/L	5	12/13/19	KDB	E350.1
Nitrite-N	0.024	0.010	mg/L	1	12/09/19 19:24	TB	E353.2
Nitrate-N	0.04	0.02	mg/L	1	12/09/19 19:24	TB	E353.2
Oil and Grease by EPA 1664	7.5	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	3.95	0.50	mg/L	5	12/13/19	KDB	E351.1
Phosphorus, as P	0.812	0.010	mg/L	1	12/18/19	JR	SM4500PE-11
Total Suspended Solids	110	17	mg/L	3.3	12/10/19	ARG	SM 2540D-11
Turbidity	103	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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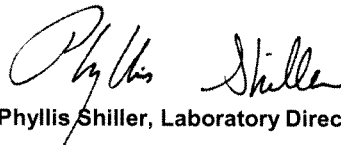
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date      Time  
 12/09/19      12:25  
 12/09/19      14:44

Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83127

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB13157

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/12/19	TH	SW6010D
Hardness (CaCO3)	11.1	0.1	mg/L	1	12/12/19		E200.7
Escherichia Coli	31	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	557	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	20	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:43	O	SM4500CI-G-00
C.O.D.	690	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	84	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.27	0.05	mg/L	1	12/10/19 18:34	MI/EG	SM5540 C-11
Ammonia as Nitrogen	0.58	0.25	mg/L	5	12/13/19	KDB	E350.1
Nitrite-N	0.011	0.010	mg/L	1	12/09/19 19:25	TB	E353.2
Nitrate-N	0.06	0.02	mg/L	1	12/09/19 19:25	TB	E353.2
Oil and Grease by EPA 1664	5.7	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	7.28	0.50	mg/L	5	12/13/19	KDB	E351.1
Phosphorus, as P	1.10	0.020	mg/L	2	12/18/19	JR	SM4500PE-11
Total Suspended Solids	160	10	mg/L	2	12/11/19	ARG/BJA	SM 2540D-11
Turbidity	53.1	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Project ID: NEW HAVEN STORMWATER  
Client ID: CB13157

Phoenix I.D.: CE83127

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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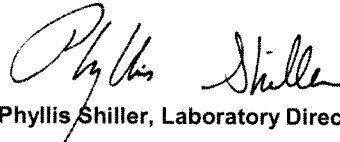
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

## Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

## Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 12/09/19 11:30  
 12/09/19 14:44

## Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83128

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB13205

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/12/19	TH	SW6010D
Hardness (CaCO3)	26.6	0.1	mg/L	1	12/12/19		E200.7
Escherichia Coli	51	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	1210	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	10	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	14100	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:44	O	SM4500CI-G-00
C.O.D.	152	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	314	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.25	0.05	mg/L	1	12/10/19 18:35	MI/EG	SM5540 C-11
Ammonia as Nitrogen	0.61	0.25	mg/L	5	12/13/19	KDB	E350.1
Nitrite-N	0.046	0.010	mg/L	1	12/09/19 19:26	TB	E353.2
Nitrate-N	0.11	0.02	mg/L	1	12/09/19 19:26	TB	E353.2
Oil and Grease by EPA 1664	6.2	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	2.27	0.50	mg/L	5	12/13/19	KDB	E351.1
Phosphorus, as P	0.390	0.010	mg/L	1	12/18/19	JR	SM4500PE-11
Total Suspended Solids	92	10	mg/L	2	12/11/19	ARG/BJA	SM 2540D-11
Turbidity	110	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
-----------	--------	------------	-------	----------	-----------	----	-----------

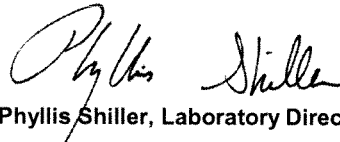
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 23, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

## Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

## Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date Time  
 12/09/19 12:20  
 12/09/19 14:44

## Laboratory Data

SDG ID: GCE83117  
 Phoenix ID: CE83129

Project ID: NEW HAVEN STORMWATER  
 Client ID: CB9473

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/12/19	TH	SW6010D
Hardness (CaCO3)	60.0	0.1	mg/L	1	12/12/19		E200.7
Escherichia Coli	134	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	1350	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	52	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:44	O	SM4500Cl-G-00
C.O.D.	378	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	226	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.32	0.05	mg/L	1	12/10/19 18:35	MI/EG	SM5540 C-11
Ammonia as Nitrogen	0.60	0.25	mg/L	5	12/13/19	KDB	E350.1
Nitrite-N	0.031	0.010	mg/L	1	12/09/19 19:27	TB	E353.2
Nitrate-N	0.10	0.02	mg/L	1	12/09/19 19:27	TB	E353.2
Oil and Grease by EPA 1664	13	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	4.42	0.50	mg/L	5	12/13/19	KDB	E351.1
Phosphorus, as P	4.70	0.25	mg/L	25	12/18/19	JR	SM4500PE-11
Total Suspended Solids	250	10	mg/L	2	12/11/19	ARG/BJA	SM 2540D-11
Turbidity	90.3	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Project ID: NEW HAVEN STORMWATER  
Client ID: CB9473

Phoenix I.D.: CE83129

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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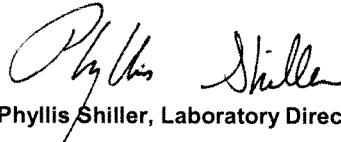
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 23, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**





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# QA/QC Report

December 23, 2019

## QA/QC Data

SDG I.D.: GCE83117

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 509579 (mg/L), QC Sample No: CE82451 (CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124)													
<u>ICP Metals - Aqueous</u>													
Boron	BRL	0.05	<0.05	<0.05	NC	97.0	99.9	2.9	98.4			75 - 125	20
QA/QC Batch 509580 (mg/L), QC Sample No: CE83178 (CE83125, CE83126, CE83127, CE83128, CE83129)													
<u>ICP Metals - Aqueous</u>													
Boron	BRL	0.05	0.13	0.13	NC	93.5	96.0	2.6	95.4			75 - 125	20



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# QA/QC Report

December 23, 2019

## QA/QC Data

SDG I.D.: GCE83117

Parameter	Blk Blank	Sample RL	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 509446 (NTU), QC Sample No: CE82863 (CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129)												
Turbidity	BRL	0.20	<0.20	<0.20	NC	105					85 - 115	20
QA/QC Batch 510144 (mg/L), QC Sample No: CE82909 (CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129)												
Oil and Grease by EPA 1664A	BRL	1.4				97.0	96.0	1.0			85 - 115	20
Comment: Additional: MS acceptance range 75-125%.												
QA/QC Batch 510766 (mg/L), QC Sample No: CE83055 (CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129)												
Phosphorus, as P	BRL	0.01	2.29	2.29	0	101		99.0			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.												
QA/QC Batch 509534 (mg/L), QC Sample No: CE83055 (CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126)												
Total Suspended Solids	BRL	2.5	78	76	2.60	110					85 - 115	20
QA/QC Batch 509450 (umhos/cm), QC Sample No: CE83093 (CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129)												
Conductivity	BRL	5	928	928	0	98.0					85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.												
QA/QC Batch 509752 (mg/L), QC Sample No: CE83119 (CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129)												
C.O.D.	BRL	10	19	14	NC	100		99.4			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.												
QA/QC Batch 509605 (mg/L), QC Sample No: CE83296 (CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129)												
MBAS	BRL	0.05	0.10	0.06	NC	97.9		91.3			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.												
QA/QC Batch 509714 (mg/L), QC Sample No: CE84368 (CE83127, CE83128, CE83129)												
Total Suspended Solids	BRL	2.5	11	12	NC	92.0					85 - 115	20
QA/QC Batch 509468 (mg/L), QC Sample No: CE83094 (CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129)												
Nitrate-N	BRL	0.02	0.13	0.13	0	102		103			90 - 110	20
Nitrite-N	BRL	0.01	0.050	0.05	0	97.6		102			90 - 110	20
QA/QC Batch 509816 (mg/L), QC Sample No: CE82745 (CE83117, CE83118, CE83119, CE83120)												
Ammonia as Nitrogen	BRL	0.05	1.20	1.19	0.80	95.9		98.0			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	2.61	2.69	3.00	98.4		88.4			85 - 115	20
Comment: TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.												


QA/QC Data

SDG I.D.: GCE83117

Parameter	Blank	Bik	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	%	%
		RL										Rec Limits	RPD Limits
QA/QC Batch 509915 (mg/L), QC Sample No: CE83121 (CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129)													
Ammonia as Nitrogen	BRL	0.05	<0.25	<0.25	NC	102			100			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	3.08	2.81	9.20	93.5			109			85 - 115	20
Comment:													
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													
QA/QC Batch 509451 (mg/L), QC Sample No: CE83050 (CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129)													
Chlorine Residual	BRL	0.02	<0.02	<0.02	NC	111							

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference

  
 Phyllis Shiller, Laboratory Director  
 December 23, 2019

Monday, December 23, 2019

Criteria: None

State: CT

Sample No      Acode      Phoenix Analyte

# Sample Criteria Exceedances Report

## GCE83117 - ATC-EHDAS

Criteria      Result      RL      Criteria      RL      Criteria      Analysis Units

\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Phoenix Environmental Labs, Inc.

**Client:** ATC Associates

**Project Location:** NEW HAVEN STORMWATER

**Project Number:**

**Laboratory Sample ID(s):** CE83117-CE83129

**Sampling Date(s):** 12/9/2019

**List RCP Methods Used (e.g., 8260, 8270, et cetera)** 6010

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u><i>VPH and EPH methods only:</i></u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody?  b) Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

**Authorized Signature:** Rashmi Makol **Position:** Project Manager

**Printed Name:** Rashmi Makol **Date:** Monday, December 23, 2019

**Name of Laboratory** Phoenix Environmental Labs, Inc.

**This certification form is to be used for RCP methods only.**



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
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## RCP Certification Report

December 23, 2019

SDG I.D.: GCE83117

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### SDG Comments

#### Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Boron is reported as requested on the chain of custody.

### Wet Chemistry Analysis

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

**BECKMAN DU720 #2 12/10/19-3** Michael Tran, Eric Geyer, Chemist 12/10/19

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129

**BECKMAN DU720 #2 12/18/19-1** Jean Rawling, Chemist 12/18/19

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129

**HACH DR 5000 12/11/19-2** Nicole Molloy, Chemist 12/11/19

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

#### QC (Batch Specific):

##### **Batch 509446 (CE82863)**

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 509450 (CE83093)**

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 509534 (CE83055)**

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 509605 (CE83296)**

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 509714 (CE84368)**

CE83127, CE83128, CE83129



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## RCP Certification Report

December 23, 2019

SDG I.D.: GCE83117

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### **Wet Chemistry Analysis**

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

#### **Batch 510144 (CE82909)**

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
All LCSD recoveries were within 85 - 115 with the following exceptions: None.  
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.  
Additional: MS acceptance range 75-125%.  
Additional criteria matrix spike acceptance range is 75-125%.

#### **Batch 510766 (CE83055)**

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

### **QC (Site Specific):**

#### **Batch 509752 (CE83119)**

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
All MS recoveries were within 75 - 125 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

### **ICP Metals Narration**

---

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

#### **Instrument:**

##### **BLUE 12/10/19 09:25**

Mike Hornak, Chemist 12/10/19

CE83125, CE83126

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria. The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

##### **BLUE 12/11/19 10:29**

Tina Hall, Chemist 12/11/19

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83127, CE83128, CE83129

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria. The linear range is defined daily by the calibration range.

---



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## Certification Report

December 23, 2019

SDG I.D.: GCE83117

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### ICP Metals Narration

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.  
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.  
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

#### QC (Batch Specific):

##### Batch 509579 (CE82451)

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124  
All LCS recoveries were within 75 - 125 with the following exceptions: None.  
All LCSD recoveries were within 75 - 125 with the following exceptions: None.  
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

##### Batch 509580 (CE83178)

CE83125, CE83126, CE83127, CE83128, CE83129  
All LCS recoveries were within 75 - 125 with the following exceptions: None.  
All LCSD recoveries were within 75 - 125 with the following exceptions: None.  
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

---

### LACHAT

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

##### LACHAT 12/09/19-1

Thomas Budz, Chemist 12/09/19

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129  
The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

#### QC (Batch Specific):

##### Batch 509468 (CE83094)

CE83117, CE83118, CE83119, CE83120, CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129  
All LCS recoveries were within 90 - 110 with the following exceptions: None.

---

### NITROGEN

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

##### LACHAT 12/12/19-1

Kandi Della Bella, Chemist 12/12/19

CE83117, CE83118, CE83119, CE83120  
The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

##### LACHAT 12/13/19-1

Kandi Della Bella, Chemist 12/13/19

CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129





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## RCP Certification Report

December 23, 2019

SDG I.D.: GCE83117

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### ***NITROGEN***

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

#### **QC (Batch Specific):**

##### **Batch 509816 (CE82745)**

CE83117, CE83118, CE83119, CE83120

All LCS recoveries were within 85 - 115 with the following exceptions: None.

TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.

Additional criteria: LCS acceptance range for waters is 85-115% and for soils is 75-125%. MS acceptance range is 75-125%.

#### **QC (Site Specific):**

##### **Batch 509915 (CE83121)**

CE83121, CE83122, CE83123, CE83124, CE83125, CE83126, CE83127, CE83128, CE83129

All LCS recoveries were within 85 - 115 with the following exceptions: None.

All MS recoveries were within 75 - 125 with the following exceptions: None.

TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.

Additional criteria: LCS acceptance range for waters is 85-115% and for soils is 75-125%. MS acceptance range is 75-125%.

### ***Temperature Narration***

The samples were received at 5.4C with cooling initiated.

(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes  No   
 Coolant: IPK  ICE

**CHAIN OF CUSTODY RECORD**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
**Client Services (860) 645-8726**



Customer: ATC Group Services  
 Address: 290 Roberts St, Suite 301  
 East Hartford, CT

Project: New Haven Stormwater  
 Report to: Luke Whitehouse  
 Invoice to: ATC  
 QUOTE # CTDAS Rates

Data Delivery/Contact Options:  
 Temp SyC Pg 1 of 2  
 Fax: \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: luke.whitehouse@atcgs.com

Project P.O.: \_\_\_\_\_  
**This section MUST be completed with Bottle Quantities.**

Sampler's Signature: [Signature] Date: 12/9/19  
 Client Sample - Information - Identification

Matrix Code: W=Water, SW=Surface Water, WW=Waste Water, L=Liquid, B=Bulk, RW=Raw Water, SE=Sediment, SL=Sludge, S=Soil, SD=Solid, W=Wipe, OL=Oil

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Oil and Grease	Hardness	Chlorine	Sulfates	Turbidity	Salinity	GL VOA Yrs [methanol]	GL VOA Yrs [H2O]	GL Soil container [oz]	GL Amber 1000ml [As is]	GL H2SO4 [250ml]	PL H2SO4 [250ml]	PL H2SO4 [500ml]	PL H2SO4 [1000ml]	PL Amber 250ml [As is]	Bacteria Bottle with as
83117	CB13001	SW	12/9/19	1025	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83118	CB13015			1040	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83119	CB13033			1050	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83120	CB13073			1105	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83121	CB13089			1123	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83122	CB8609			1140	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83123	CB9129			1011	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83124	CB13175			1000	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83125	CB9436			1156	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83126	Outfall 126			0946	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83127	CB13157			1225	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
83128	CB13105			1130	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Analysis Request

<input checked="" type="checkbox"/> Total Coli	<input checked="" type="checkbox"/> Direct Exposure (Residential)	<input checked="" type="checkbox"/> RCP Cert	<input checked="" type="checkbox"/> MCP Certification
<input checked="" type="checkbox"/> COD, TP, TKN	<input type="checkbox"/> GW	<input type="checkbox"/> GW Protection	<input type="checkbox"/> GW-1
<input checked="" type="checkbox"/> Sulfates, Turbidity, Salinity	<input type="checkbox"/> Other	<input type="checkbox"/> SW Protection	<input type="checkbox"/> GW-2
<input checked="" type="checkbox"/> Hardness, Bora		<input type="checkbox"/> GA Mobility	<input type="checkbox"/> GW-3
<input checked="" type="checkbox"/> Chlorine, Turbidity, Salinity		<input type="checkbox"/> GB Mobility	<input type="checkbox"/> S-1
<input checked="" type="checkbox"/> Oil and Grease		<input type="checkbox"/> Residential DEC	<input type="checkbox"/> S-2
<input checked="" type="checkbox"/> GL VOA Yrs [methanol]		<input type="checkbox"/> I/C DEC	<input type="checkbox"/> S-3
<input checked="" type="checkbox"/> GL VOA Yrs [H2O]		<input type="checkbox"/> Other	<input type="checkbox"/> MWRA eSMART

Date: 12/9/19 Time: 14:44  
 Accepted by: [Signature]  
 Relinquished by: [Signature]

Turnaround:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other 5 DAY  
 \*SURCHARGE APPLIES

Comments, Special Requirements or Regulations:

State where samples were collected: \_\_\_\_\_ CT \_\_\_\_\_  
 \*SURCHARGE APPLIES

Cooler: Yes  No   
 Ice: Yes  No   
 Coolant: IPK  ICE

Temp: 6.4 °C Pg 2 of 2

**CHAIN OF CUSTODY RECORD**

Data Delivery/Contact Options:

Fax:   
 Phone:   
 Email:

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
 Client Services (860) 645-8726

Project: New Haven Stormwater  
 Report to: Luke & Whitehous  
 Invoice to: ATC  
 QUOTE # CT-DAS-RATE

Project P.O. \_\_\_\_\_

Customer: ATC Group  
 Address: 290 Roberts St  
East Hartford, CT

Client Sample - Information - Identification

Sampler's Signature: [Signature] Date: 12/9/19  
 Matrix Code:  
 GW=Ground Water SW=Surface Water WW=Waste Water  
 DW=Drinking Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe OIL=Oil  
 B=Bulk L=Liquid X=(Other)

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
83129	CB9473	SW	12/9/19	1220

Analysis Request

*[Handwritten notes: 211112, 2XXXXXX, etc.]*

Address: OT-Greese  
Headquarters  
Charles Bona  
295 Galt Ave  
Greene, CT

Refined by: [Signature] Accepted by: [Signature]  
 Date: 12/9/19 Time: 14:58  
 Turnaround Time:  
 1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other  
 \* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:

State where samples were collected: CT  
 \* SURCHARGE APPLIES

MA	CT	RI	Time	Date
<input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 GW-1 <input type="checkbox"/> S-1 GW-2 <input type="checkbox"/> S-1 GW-3 <input type="checkbox"/> S-2 GW-1 <input type="checkbox"/> S-2 GW-2 <input type="checkbox"/> S-2 GW-3 <input type="checkbox"/> S-3 GW-1 <input type="checkbox"/> S-3 GW-2 <input type="checkbox"/> S-3 GW-3 <input type="checkbox"/> SW Protection	<input checked="" type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	<input type="checkbox"/> (Residential) Direct Exposure <input type="checkbox"/> (Comm/Industrial) Direct Exposure <input type="checkbox"/> GA Leachability <input type="checkbox"/> GB Leachability <input type="checkbox"/> GA-GW Objectives <input type="checkbox"/> GB-GW Objectives	Date: <u>12/9/19</u> Time: <u>14:58</u> Turnaround Time: <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input type="checkbox"/> Standard <input type="checkbox"/> Other * SURCHARGE APPLIES	Date: _____ Time: _____ Turnaround Time: <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input type="checkbox"/> Standard <input type="checkbox"/> Other * SURCHARGE APPLIES

- Excel
- PDF
- GIS/Key
- EQUIS
- Other
- Data Package**
- Tier II Checklist
- Full Data Package\*
- Phoenix Std Report
- Other
- \* SURCHARGE APPLIES



Friday, December 20, 2019

Attn: Luke Whitehouse  
ATC Associates  
290 Roberts St., Suite 301  
East Hartford, CT 06108

Project ID: NEW HAVEN STORMWATER  
SDG ID: GCE83093  
Sample ID#s: CE83093 - CE83094

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in cursive script that reads "Phyllis Shiller".

Phyllis/Shiller  
Laboratory Director

NELAC - #NY11301  
CT Lab Registration #PH-0618  
MA Lab Registration #M-CT007  
ME Lab Registration #CT-007  
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003  
NY Lab Registration #11301  
PA Lab Registration #68-03530  
RI Lab Registration #63  
UT Lab Registration #CT00007  
VT Lab Registration #VT11301



Environmental Laboratories, Inc.  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823

## Sample Id Cross Reference

December 20, 2019

SDG I.D.: GCE83093

Project ID: NEW HAVEN STORMWATER

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Client Id	Lab Id	Matrix
OF-129	CE83093	STORM WATER
OF-128	CE83094	STORM WATER



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# Analysis Report

December 20, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

## Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

## Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

## Date

12/09/19  
 12/09/19

## Time

11:50  
 14:45

## Laboratory Data

SDG ID: GCE83093  
 Phoenix ID: CE83093

Project ID: NEW HAVEN STORMWATER  
 Client ID: OF-129

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	0.10	0.05	mg/L	1	12/11/19	TH	SW6010D
Hardness (CaCO3)	118	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	327	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	857	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	189	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:30	O	SM4500CI-G-00
C.O.D.	161	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	928	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.41	0.10	mg/L	2	12/10/19 18:21	MI/EG	SM5540 C-11
Ammonia as Nitrogen	0.44	0.10	mg/L	2	12/12/19	KDB	E350.1
Nitrite-N	0.066	0.010	mg/L	1	12/09/19 19:12	TB	E353.2
Nitrate-N	0.13	0.02	mg/L	1	12/09/19 19:12	TB	E353.2
Oil and Grease by EPA 1664	10	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	1.94	0.20	mg/L	2	12/12/19	KDB	E351.1
Phosphorus, as P	0.265	0.010	mg/L	1	12/18/19	MI	SM4500PE-11
Total Suspended Solids	100	17	mg/L	3.3	12/10/19	ARG	SM 2540D-11
Turbidity	183	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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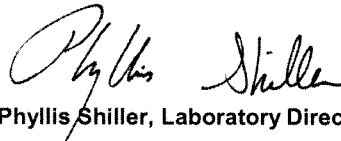
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 20, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
 December 20, 2019

FOR: Attn: Luke Whitehouse  
 ATC Associates  
 290 Roberts St., Suite 301  
 East Hartford, CT 06108

Sample Information

Matrix: STORM WATER  
 Location Code: ATC-EHDAS  
 Rush Request: Standard  
 P.O.#:

Custody Information

Collected by:  
 Received by: CP  
 Analyzed by: see "By" below

Date

12/09/19  
 12/09/19

Time

10:40  
 14:45

Laboratory Data

SDG ID: GCE83093  
 Phoenix ID: CE83094

Project ID: NEW HAVEN STORMWATER  
 Client ID: OF-128

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Boron	< 0.05	0.05	mg/L	1	12/11/19	TH	SW6010D
Hardness (CaCO3)	12.9	0.1	mg/L	1	12/11/19		E200.7
Escherichia Coli	384	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SM9223B-04
Enterococci Bacteria	836	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Enterolert
Fecal Coliforms MPN	350	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	Colilert-18
Total Coliforms	>24200	10	MPN/100 mls	10	12/09/19 17:05	LJ/LJ	SW9223B-06
Chlorine Residual	< 0.02	0.02	mg/L	1	12/09/19 18:31	O	SM4500CI-G-00
C.O.D.	72	10	mg/L	1	12/11/19	NLM	SM 5220C-11
Conductivity	336	5	umhos/cm	1	12/09/19	AP	SM2510B-11
MBAS	0.19	0.05	mg/L	1	12/10/19 18:22	MI/EG	SM5540 C-11
Ammonia as Nitrogen	0.34	0.05	mg/L	1	12/12/19	KDB	E350.1
Nitrite-N	0.050	0.010	mg/L	1	12/09/19 19:03	TB	E353.2
Nitrate-N	0.13	0.02	mg/L	1	12/09/19 19:03	TB	E353.2
Oil and Grease by EPA 1664	4.8	1.4	mg/L	1	12/13/19	MSF	E1664A
Salinity	< 0.5	0.5	ppt	1	12/09/19	AP	SM2520B-10
Nitrogen Tot Kjeldahl	1.12	0.10	mg/L	1	12/12/19	KDB	E351.1
Phosphorus, as P	0.174	0.010	mg/L	1	12/18/19	JR	SM4500PE-11
Total Suspended Solids	62	10	mg/L	2	12/10/19	ARG	SM 2540D-11
Turbidity	68.7	0.20	NTU	1	12/09/19 18:02	AP	SM2130B-11
Total Metals Digestion	Completed				12/10/19	AG	



Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
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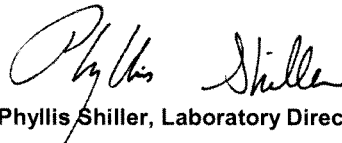
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

**Comments:**

The regulatory hold time for Chlorine is immediately. This Chlorine was performed in the laboratory and may be considered outside of hold-time.

The LAS standard used for the MBAS analysis has a molecular weight of 342 g/mol.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



**Phyllis Shiller, Laboratory Director**

**December 20, 2019**

**Reviewed and Released by: Rashmi Makol, Project Manager**



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

December 20, 2019

## QA/QC Data

SDG I.D.: GCE83093

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 509579 (mg/L), QC Sample No: CE82451 (CE83093, CE83094)													
<u>ICP Metals - Aqueous</u>													
Boron	BRL	0.05	<0.05	<0.05	NC	97.0	99.9	2.9	98.4			75 - 125	20



Environmental Laboratories, Inc.  
 587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
 Tel. (860) 645-1102 Fax (860) 645-0823

# QA/QC Report

December 20, 2019

## QA/QC Data

SDG I.D.: GCE83093

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 509446 (NTU), QC Sample No: CE82863 (CE83093, CE83094)													
Turbidity	BRL	0.20	<0.20	<0.20	NC	105						85 - 115	20
QA/QC Batch 510144 (mg/L), QC Sample No: CE82909 (CE83093, CE83094)													
Oil and Grease by EPA 1664A	BRL	1.4				97.0	96.0	1.0				85 - 115	20
Comment: Additional: MS acceptance range 75-125%.													
QA/QC Batch 510766 (mg/L), QC Sample No: CE83055 (CE83094)													
Phosphorus, as P	BRL	0.01	2.29	2.29	0	101			99.0			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 509534 (mg/L), QC Sample No: CE83055 (CE83093, CE83094)													
Total Suspended Solids	BRL	2.5	78	76	2.60	110						85 - 115	20
QA/QC Batch 509450 (umhos/cm), QC Sample No: CE83093 (CE83093, CE83094)													
Conductivity	BRL	5	928	928	0	98.0						85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 509752 (mg/L), QC Sample No: CE83119 (CE83093, CE83094)													
C.O.D.	BRL	10	19	14	NC	100			99.4			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 509605 (mg/L), QC Sample No: CE83296 (CE83093, CE83094)													
MBAS	BRL	0.05	0.10	0.06	NC	97.9			91.3			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 510843 (mg/L), QC Sample No: CE83654 (CE83093)													
Phosphorus, as P	BRL	0.01	3.47	3.47	0	99.4			101			85 - 115	20
Comment: Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 509468 (mg/L), QC Sample No: CE83094 (CE83093, CE83094)													
Nitrate-N	BRL	0.02	0.13	0.13	0	102			103			90 - 110	20
Nitrite-N	BRL	0.01	0.050	0.05	0	97.6			102			90 - 110	20
QA/QC Batch 509816 (mg/L), QC Sample No: CE82745 (CE83093, CE83094)													
Ammonia as Nitrogen	BRL	0.05	1.20	1.19	0.80	95.9			98.0			90 - 110	20
Nitrogen Tot Kjeldahl	BRL	0.10	2.61	2.69	3.00	98.4			88.4			85 - 115	20
Comment: TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.													
QA/QC Batch 509451 (mg/L), QC Sample No: CE83050 (CE83093, CE83094)													
Chlorine Residual	BRL	0.02	<0.02	<0.02	NC	111							

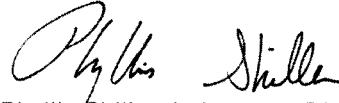
QA/QC Data

SDG I.D.: GCE83093

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

- RPD - Relative Percent Difference
- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- MS - Matrix Spike
- MS Dup - Matrix Spike Duplicate
- NC - No Criteria
- Intf - Interference



Phyllis/Shiller, Laboratory Director  
December 20, 2019

Friday, December 20, 2019

# Sample Criteria Exceedances Report

Criteria: None

State: CT

GCE83093 - ATC-EHDAS

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL	Criteria	Analysis Units
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\*\*\* No Data to Display \*\*\*

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedances. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedance information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Phoenix Environmental Labs, Inc.

**Client:** ATC Associates

**Project Location:** NEW HAVEN STORMWATER

**Project Number:**

**Laboratory Sample ID(s):** CE83093, CE83094

**Sampling Date(s):** 12/9/2019

**List RCP Methods Used (e.g., 8260, 8270, et cetera)** 6010

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1B	<u>VPH and EPH methods only:</u> Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	a) Were reporting limits specified or referenced on the chain-of-custody?  b) Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Rashmi Makol Position: Project Manager

Printed Name: Rashmi Makol Date: Friday, December 20, 2019

Name of Laboratory Phoenix Environmental Labs, Inc.

**This certification form is to be used for RCP methods only.**



**Environmental Laboratories, Inc.**  
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## RCP Certification Report

December 20, 2019

SDG I.D.: GCE83093

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### SDG Comments

#### Metals Analysis:

The client requested a shorter list of elements than the 6010 RCP list. Only Boron is reported as requested on the chain of custody.

### Wet Chemistry Analysis

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

**BECKMAN DU720 #2 12/10/19-3** Michael Tran, Eric Geyer, Chemist 12/10/19  
CE83093, CE83094

**BECKMAN DU720 #2 12/18/19-1** Jean Rawling, Chemist 12/18/19  
CE83094

**BECKMAN DU720 #2 12/18/19-3** Michael Tran, Chemist 12/18/19  
CE83093

**HACH DR 5000 12/11/19-2** Nicole Molloy, Chemist 12/11/19  
CE83093, CE83094

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

#### QC (Batch Specific):

##### **Batch 509446 (CE82863)**

CE83093, CE83094

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 509450 (CE83093)**

CE83093, CE83094

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 509534 (CE83055)**

CE83093, CE83094

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

##### **Batch 509605 (CE83296)**

CE83093, CE83094



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045  
Tel. (860) 645-1102 Fax (860) 645-0823



## RCP Certification Report

December 20, 2019

SDG I.D.: GCE83093

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### ***Wet Chemistry Analysis***

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

**Batch 509752 (CE83119)**

CE83093, CE83094

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

**Batch 510144 (CE82909)**

CE83093, CE83094

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
All LCSD recoveries were within 85 - 115 with the following exceptions: None.  
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.  
Additional: MS acceptance range 75-125%.  
Additional criteria matrix spike acceptance range is 75-125%.

**Batch 510766 (CE83055)**

CE83094

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

**Batch 510843 (CE83654)**

CE83093

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
Additional criteria matrix spike acceptance range is 75-125%.

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### ***ICP Metals Narration***

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

**Instrument:**

**BLUE 12/11/19 10:29**

Tina Hall, Chemist 12/11/19

CE83093, CE83094

The initial calibration met criteria.

The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.

The continuing calibration blanks were less than the reporting level for the elements reported.

The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria. The linear range is defined daily by the calibration range.

The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.

The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

**QC (Batch Specific):**

**Batch 509579 (CE82451)**

CE83093, CE83094

All LCS recoveries were within 75 - 125 with the following exceptions: None.

All LCSD recoveries were within 75 - 125 with the following exceptions: None.





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## Certification Report

December 20, 2019

SDG I.D.: GCE83093

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### ICP Metals Narration

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

### LACHAT

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

LACHAT 12/09/19-1 Thomas Budz, Chemist 12/09/19  
CE83093, CE83094

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

#### QC (Site Specific):

Batch 509468 (CE83094)  
CE83093, CE83094

All LCS recoveries were within 90 - 110 with the following exceptions: None.  
All MS recoveries were within 90 - 110 with the following exceptions: None.

### NITROGEN

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

#### Instrument:

LACHAT 12/12/19-1 Kandi Della Bella, Chemist 12/12/19  
CE83093, CE83094

The initial calibration met all criteria including a standard run at the reporting level.  
All method verification standards and blanks met criteria.

#### QC (Batch Specific):

Batch 509816 (CE82745)  
CE83093, CE83094

All LCS recoveries were within 85 - 115 with the following exceptions: None.  
TKN is reported as Organic Nitrogen in the Blank, LCS, DUP and MS.  
Additional criteria: LCS acceptance range for waters is 85-115% and for soils is 75-125%. MS acceptance range is 75-125%.

### Temperature Narration

The samples were received at 5.4C with cooling initiated.  
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)



**CHAIN OF CUSTODY RECORD**

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040  
 Email: info@phoenixlabs.com Fax (860) 645-0823  
 Client Services (860) 645-8726

Cooler: Yes  No   
 Coolant: IPK  ICE  No

Temp 5 °C Pg 1 of 1

Data Delivery/Contact Options:

Fax:   
 Phone:   
 Email:  Luke.whitehouse@atcgs.com

Customer: ATC Group Services Project P.O.: New Haven Stormwater  
 Address: 290 Roberts St, Suite 301 Report to: Luke Whitehouse  
 East Hartford, CT Invoice to: ATC  
 QUOTE # CTDAS Rates

**This section MUST be completed with Bottle Quantities.**

Sampler's Signature: *[Signature]* Date: 12/19/19

Matrix Code: GW=Ground Water, SW=Surface Water, WW=Waste Water  
 RW=Raw Water, SE=Sediment, SL=Sludge, S=Soil, SD=Solid, W=Wipe Oil=Oil  
 B=Bulk, L=Liquid

Analysis Request  
 Oil and Grease  
 Herdies Bore  
 Chlorine Conductivity, Salinity  
 COD, TP, TN, NH3  
 TSS, NO3, NO2, NH3  
 Surfactants, Turbidity  
 Total E. Coli  
 Fecal Enterococci

PHOENIX USE ONLY	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	RI	CT	MA	Data Format
83093	OF-12	SW	12/19/19	1150	X	X	X	Excel
83094	OF-18	L	12/19/19	1040	X	X	X	PDF
								GIS/Key
								EQUIS
								Other
								Tier II Checklist
								Full Data Package*
								Phoenix Std Report
								Other

Requisitioned by: *[Signature]*  
 Accepted by: *[Signature]*  
 Date: 12/19/19 Time: 14:45  
 Turnaround:  1 Day\*  
 2 Days\*  
 3 Days\*  
 Standard  
 Other 5 DAY  
 \* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:

State where samples were collected: CT

\* SURCHARGE APPLIES



# CLIENT NOTIFICATION Positive Coliform Report

12/11/2019 9:57:53 AM

Sample Delivery Group: GCE83117

Location Code: ATC-EHDAS

Project: NEW HAVEN STORMWATER

Phoenix ID	Client Id	Matrix	Rush	T-COLI			E-COLI			F-COLI			ENTERO		
				Result	Units	Date	Result	Units	Date	Result	Units	Date	Result	Units	Date
CE83117	CB13001	SW		>24200	mpn/100mls	12/09/19	459	mpn/100mls	12/09/19	109	mpn/100mls	12/09/19	2610	mpn/100mls	12/09/19
CE83118	CB13015	SW		12000	mpn/100mls	12/09/19	10	mpn/100mls	12/09/19	10	mpn/100mls	12/09/19	633	mpn/100mls	12/09/19
CE83119	CB13033	SW		17300	mpn/100mls	12/09/19	31	mpn/100mls	12/09/19	74	mpn/100mls	12/09/19	448	mpn/100mls	12/09/19
CE83120	CB13073	SW		>24200	mpn/100mls	12/09/19	1040	mpn/100mls	12/09/19	583	mpn/100mls	12/09/19	3450	mpn/100mls	12/09/19
CE83121	CB13089	SW		>24200	mpn/100mls	12/09/19	958	mpn/100mls	12/09/19	529	mpn/100mls	12/09/19	3870	mpn/100mls	12/09/19
CE83122	CB8609	SW		24200	mpn/100mls	12/09/19	134	mpn/100mls	12/09/19	187	mpn/100mls	12/09/19	1400	mpn/100mls	12/09/19
CE83123	CB9129	SW		>24200	mpn/100mls	12/09/19	145	mpn/100mls	12/09/19	199	mpn/100mls	12/09/19	3450	mpn/100mls	12/09/19
CE83124	CB13175	SW		>24200	mpn/100mls	12/09/19	2050	mpn/100mls	12/09/19	465	mpn/100mls	12/09/19	9800	mpn/100mls	12/09/19
CE83125	CB9436	SW		>24200	mpn/100mls	12/09/19	987	mpn/100mls	12/09/19	520	mpn/100mls	12/09/19	9800	mpn/100mls	12/09/19
CE83126	OUTFALL 126	SW		>24200	mpn/100mls	12/09/19	2600	mpn/100mls	12/09/19	1080	mpn/100mls	12/09/19	>24200	mpn/100mls	12/09/19
CE83127	CB13157	SW		>24200	mpn/100mls	12/09/19	31	mpn/100mls	12/09/19	20	mpn/100mls	12/09/19	557	mpn/100mls	12/09/19
CE83128	CB13205	SW		14100	mpn/100mls	12/09/19	51	mpn/100mls	12/09/19	10	mpn/100mls	12/09/19	1210	mpn/100mls	12/09/19
CE83129	CB9473	SW		>24200	mpn/100mls	12/09/19	134	mpn/100mls	12/09/19	52	mpn/100mls	12/09/19	1350	mpn/100mls	12/09/19

**Contact:**

**Date:**

**Comments:**

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 MADISON, CT 06443  
 Phone 203-245-0568  
 FAX 203-318-0830  
 Connecticut Certification PH-0535  
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**ENVIRONMENTAL**  
 CONSULTING LABORATORIES, INC.


### Report of Analysis

**Name:** ATC Group Services, LLC  
 290 Roberts St.  
 East Hartford, CT 06108  
 Attn: Luke Whitehouse

**Sample ID#:** 129307  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** CB 13001

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	630	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	41060	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	4540	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	100	MPN/100mL	Colilert-18	100	12/10/2019	JB

  
 DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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**ENVIRONMENTAL**  
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### Report of Analysis

**Name:** ATC Group Services, LLC  
 290 Roberts St.  
 East Hartford, CT 06108  
 Attn: Luke Whitehouse  
**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** CB 13015

**Sample ID#:** 129308  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<100	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	11780	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	630	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	<100	MPN/100mL	Colilert-18	100	12/10/2019	JB



DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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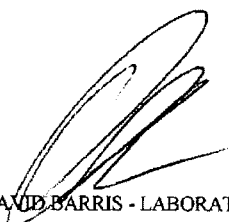
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**Report of Analysis**

**Name:** ATC Group Services, LLC  
 290 Roberts St.  
 East Hartford, CT 06108  
 Attn: Luke Whitehouse  
**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** CB 13033

**Sample ID#:** 129309  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<100	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	11460	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	1340	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	<1.00	MPN/100mL	Colilert-18	100	12/10/2019	JB

  
 DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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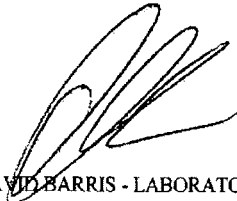
**ENVIRONMENTAL**  
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**Report of Analysis**

**Name:** ATC Group Services, LLC  
 290 Roberts St.  
 East Hartford, CT 06108  
 Attn: Luke Whitehouse  
**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** CB 13073

**Sample ID#:** 129310  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	740	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	111990	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	5460	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	310	MPN/100mL	Colilert-18	100	12/10/2019	JB

  
 DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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## Report of Analysis

**Name:** ATC Group Services, LLC  
290 Roberts St.  
East Hartford, CT 06108  
Attn: Luke Whitehouse  
**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** CB 13089

**Sample ID#:** 129311  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	850	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	104620	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	10030	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	300	MPN/100mL	Colilert-18	100	12/10/2019	JB

A handwritten signature in black ink, appearing to read 'David Barris', is written over a white background.

DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected



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## Report of Analysis

**Name:** ATC Group Services, LLC  
290 Roberts St.  
East Hartford, CT 06108  
Attn: Luke Whitehouse  
**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** CB 8609

**Sample ID#:** 129312  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	200	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	14140	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	950	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	310	MPN/100mL	Colilert-18	100	12/10/2019	JB

A handwritten signature in black ink, appearing to be 'DB' or similar initials, written in a cursive style.

DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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## Report of Analysis

**Name:** ATC Group Services, LLC  
 290 Roberts St.  
 East Hartford, CT 06108  
 Attn: Luke Whitehouse

**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** CB 9129

**Sample ID#:** 129313  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	100	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	51720	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	6310	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	520	MPN/100mL	Colilert-18	100	12/10/2019	JB

A handwritten signature in black ink, appearing to read 'David Barris', is written over a white rectangular area.

DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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 MADISON, CT 06443  
 Phone 203-245-0568  
 FAX 203-318-0830  
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## Report of Analysis

<b>Name:</b>	ATC Group Services, LLC 290 Roberts St. East Hartford, CT 06108 Attn: Luke Whitehouse	<b>Sample ID#:</b>	129314
		<b>Sample Type:</b>	Water
		<b>Sample Source:</b>	New Haven Stormwater
		<b>Sampler:</b>	Client
<b>Sample Date:</b>	12/9/2019		
<b>Receipt Date:</b>	12/9/2019		
<b>Report Date:</b>	12/10/2019		
<b>Sample Site:</b>	CB 13175		

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	1890	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	98040	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	15760	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	410	MPN/100mL	Colilert-18	100	12/10/2019	JB

A handwritten signature in black ink, appearing to read 'David Barris', is written over a light-colored background.

DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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MADISON, CT 06443  
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Connecticut Certification PH-0535  
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**ENVIRONMENTAL**  
CONSULTING LABORATORIES, INC.

## Report of Analysis

**Name:** ATC Group Services, LLC  
290 Roberts St.  
East Hartford, CT 06108  
Attn: Luke Whitehouse  
**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** CB 9436

**Sample ID#:** 129315  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

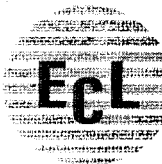
Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	1600	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	>241960	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	9340	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	1090	MPN/100mL	Colilert-18	100	12/10/2019	JB

A handwritten signature in black ink, appearing to read 'David Barris', is written over a white background.

DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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MADISON, CT 06443  
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FAX 203-318-0830  
Connecticut Certification PH-0535  
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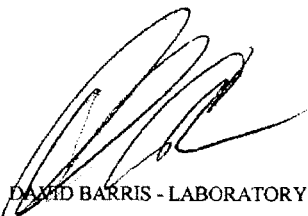
**ENVIRONMENTAL**  
CONSULTING LABORATORIES, INC.

## Report of Analysis

**Name:** ATC Group Services, LLC  
290 Roberts St.  
East Hartford, CT 06108  
Attn: Luke Whitehouse  
**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** Outfall 126

**Sample ID#:** 129316  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	2750	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	>241960	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	111990	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	2130	MPN/100mL	Colilert-18	100	12/10/2019	JB

  
DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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 FAX 203-318-0830  
 Connecticut Certification PH-0535  
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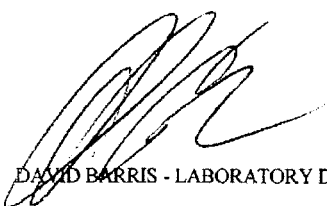
### Report of Analysis

**Name:** ATC Group Services, LLC  
 290 Roberts St.  
 East Hartford, CT 06108  
 Attn: Luke Whitehouse

**Sample ID#:** 129317  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** CB 13157

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<100	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	72700	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	740	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	<100	MPN/100mL	Colilert-18	100	12/10/2019	JB

  
 DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

1005 BOSTON POST ROAD  
 MADISON, CT 06443  
 Phone 203-245-0568  
 FAX 203-318-0830  
 Connecticut Certification PH-0535  
 www.eclinconline.com



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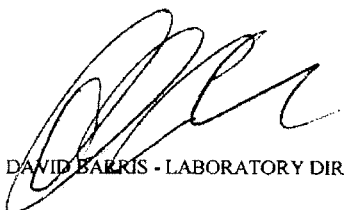
### Report of Analysis

**Name:** ATC Group Services, LLC  
 290 Roberts St.  
 East Hartford, CT 06108  
 Attn: Luke Whitehouse

**Sample ID#:** 129318  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** CB 13205

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	100	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	11120	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	1580	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	<100	MPN/100mL	Colilert-18	100	12/10/2019	JB

  
 DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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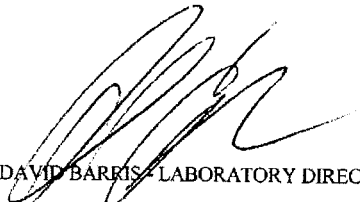
**ENVIRONMENTAL**  
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## Report of Analysis

**Name:** ATC Group Services, LLC  
290 Roberts St.  
East Hartford, CT 06108  
Attn: Luke Whitehouse  
**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** OF 129

**Sample ID#:** 129319  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	100	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	18600	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	1090	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	300	MPN/100mL	Colilert-18	100	12/10/2019	JB

  
DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected



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Connecticut Certification PH-0535  
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## Report of Analysis

**Name:** ATC Group Services, LLC  
290 Roberts St.  
East Hartford, CT 06108  
Attn: Luke Whitehouse  
**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** OF 128

**Sample ID#:** 129320  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	410	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	21870	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	1450	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	520	MPN/100mL	Colilert-18	100	12/10/2019	JB

  
DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

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 FAX 203-318-0830  
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### Report of Analysis

**Name:** ATC Group Services, LLC  
 290 Roberts St.  
 East Hartford, CT 06108  
 Attn: Luke Whitehouse

**Sample ID#:** 129321  
**Sample Type:** Water  
**Sample Source:** New Haven Stormwater  
**Sampler:** Client

**Sample Date:** 12/9/2019  
**Receipt Date:** 12/9/2019  
**Report Date:** 12/10/2019  
**Sample Site:** 9473

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	310	MPN/100mL	Colilert-18	100	12/9/2019	JB
Coliform, Total	24000	MPN/100mL	Colilert-18	100	12/9/2019	JB
Enterococcus Bacteria	2720	MPN/100mL	Enterolert	100	12/9/2019	JB
Fecal Coliform Bacteria	100	MPN/100mL	Colilert-18	100	12/10/2019	JB

  
 DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected



**ENVIRONMENTAL**  
CONSULTING LABORATORIES, INC.

Luke.Whitehouse@atcgs.com  
1005 Boston Post Road  
Madison, CT 06443

(203) 241-68 Phone  
(203) 318-0830 Fax

Client <u>ATC Group</u>		Project: <u>New Haven Stormwater</u>		Analysis	
Contact <u>Luke.Whitehouse@atcgs.com</u>		Project Name: (Print) <u>Andrea Vitano / Andy Johnson</u>		ECL Sample ID#	
Address <u>290 Roberts SF Suite 301 EHC</u>		Date		Treat + catch	
Phone:		Time		Treat + catch	
TNC NTNC COMM		Sample Type		Treat + catch	
NPDES SPDES		Water Solid Comp Grab		Treat + catch	
Client I.D.	Sampling Location	Date	Time	Number of Containers	ECL Sample ID#
	CB 13001	12/9/19	1025	1	129307
	CB 13015		1040	1	129308
	CB 13033		1050	1	129309
	CB 13073		1105	1	129310
	CB 13089		1123	1	129311
	CB 8609		1140	1	129312
	CB 9129		1011	1	129313
	CB 13175		1000	1	129314
	CB 9436		1156	1	129315
	Outfall 126		0950	1	129316
	CB 3157		1225	1	129317
	CB 3205		1130	1	129318
	DP 121		1150	1	129319

Relinquished by: <u>MMN</u>	Date: <u>12/9/19</u>	Time: <u>2:00</u>	Received by: <u>Luis Sese</u>	Date: <u>12/9/19</u>	Time: <u>2:00</u>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Were Samples received within holding time? Y  
 Were Samples chilled upon receipt? Y  
 Are Samples in appropriate containers? Y  
 If No Explain  
 Are containers broken or leaking? Y  
 Did Samples need to be split upon receipt? Y  
 Were Samples preserved properly? Y

13.5c

Remarks or Comments:



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CONSULTING LABORATORIES, INC.**

1005 Boston Post Road  
Madison, CT 06443

(203) 245-0568 Phone  
(203) 318-0830 Fax

Client: ATL GROUP  
 Contact: WKE.WHITHOUSE@CTL.COM  
 Address: 240 FOREST FT. SUITE 301 AT CT  
 Phone: \_\_\_\_\_

Project: NEW TAKEN STOP WATER

Samplers Name: (Print) Molly Nickerson / Rose Whitthouse

Client I.D.	Sampling Location	Date	Time	Sample Type			Number of Containers	ECL Sample ID#
				Water	Solid	Comp / Grab		
	OF-12	12/9/19	1040	X			1	129320
	OF-08 9473	12/9/19		X			1	129321

Analysis: total & cell water

Relinquished by: MMG  
 Date: 12/9/19  
 Time: 2:00

Received by: Justa Sore  
 Date: 12/9/19  
 Time: 2:00

Relinquished by: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Received by: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Were Samples received within holding time? Y/N  
 Were Samples chilled upon receipt? Y/N  
 Are Samples in appropriate containers? Y/N  
 If No Explain 135C

Are containers broken or leaking? Y/N  
 Did Samples need to be split upon receipt? Y/N  
 Were Samples presented properly? Y/N  
 If No, type needed

Remarks or Comments: