

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Thursday, December 17, 2020

Plymouth Environmental Management

K.Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Eel River SW Sampling

Comments:

Project Number:

Sampled By: Kim Tower

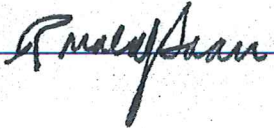
Lab Order Number: WW-201633

Date Received: 09/09/20

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	10:20	09/09/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.40	NA	09/30/20	KB	Calculation
Chloride grab	mg/L	45	3.0	09/10/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	2.0	0.017	09/21/20	RIA*	SM 5310 C
Boron	mg/L	0.065	0.010	09/22/20	KB	EPA 200.7
Nitrate-N	mg/L	0.06	0.01	09/10/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/10/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.39	0.2	09/23/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	104	6.0	09/13/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.045	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	09/23/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.6	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.08	NA	12/15/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.19	NA	12/15/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.008	0.005	09/09/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.40	NA	12/15/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.18	NA	12/15/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.27	NA	12/15/20	KB	Calculation
E coli	CFU/100mL	45	<1	09/09/20	RL @ 17:30	EPA 1603

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.**MA CERT. NO.: M-MA 063**

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Thursday, December 17, 2020

Plymouth Environmental Management

K.Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Eel River SW Sampling**Comments:****Project Number:****Sampled By:** Kim Tower**Lab Order Number:** WW-201634**Date Received:** 09/09/20

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	10:30	09/09/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.42	NA	09/30/20	KB	Calculation
Chloride grab	mg/L	44	3.0	09/10/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	1.9	0.017	09/21/20	RIA*	SM 5310 C
Boron	mg/L	0.073	0.010	09/22/20	KB	EPA 200.7
Nitrate-N	mg/L	0.07	0.01	09/10/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/10/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.35	0.2	09/23/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	100	6.0	09/13/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.049	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.32	0.20	09/23/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.6	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.09	NA	12/15/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.30	NA	12/15/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.011	0.005	09/09/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.30	NA	12/15/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.03	NA	12/15/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.39	NA	12/15/20	KB	Calculation
E coli	CFU/100mL	35	<1	09/09/20	RL @ 17:30	EPA 1603

BRL=below reportable limits

*see attached

By:

Ronald J. Saari
Laboratory Director

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Thursday, December 17, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Eel River SW Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201635

Date Received: 09/09/20

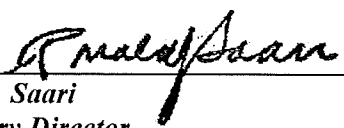
Sample Type	Sample Time	Sample Date	Comments			
S-4A A	10:40	09/09/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.38	NA	10/04/20	KB	Calculation
Chloride grab	mg/L	38	3.0	09/10/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	2.0	0.017	09/21/20	RIA*	SM 5310 C
Boron	mg/L	0.074	0.010	09/22/20	KB	EPA 200.7
Nitrate-N	mg/L	0.07	0.01	09/10/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/10/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.31	0.2	10/01/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	85	6.0	09/13/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.043	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.24	0.20	10/01/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.7	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.09	NA	12/15/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.22	NA	12/15/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.014	0.005	09/09/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.30	NA	12/15/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	12/15/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.31	NA	12/15/20	KB	Calculation
E coli	CFU/100mL	90	<1	09/09/20	RL @ 17:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 

Ronald J. Saari

Laboratory Director

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Thursday, December 17, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201636

Date Received: 09/09/20

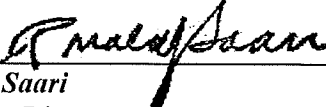
Sample Type		Sample Time	Sample Date	Comments		
S-3A	A	10:55	09/09/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Total Nitrogen		mg/L	0.46	NA	10/04/20	KB Calculation
Chloride grab		mg/L	34	3.0	09/10/20	LL EPA 300.0
Total Organic Carbon*		mg/L	1.5	0.017	09/21/20	RIA* SM 5310 C
Boron		mg/L	0.071	0.010	09/22/20	KB EPA 200.7
Nitrate-N		mg/L	0.13	0.01	09/10/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	09/10/20	LL EPA 300.0
Ammonia-N *		mg/L	BRL	0.02	09/24/20	RIA* SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	0.33	0.2	10/01/20	KB SM4500-Norg B-C
TDS-grab		mg/L	81	6.0	09/13/20	KB SM 2540 C
Total Phosphorous (P)		mg/L	0.047	0.005	09/17/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	0.23	0.20	10/01/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	1.2	0.017	09/21/20	RIA* EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	0.15	NA	12/15/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	0.21	NA	12/15/20	KB Calculation
Ortho Phosphorous (P)		mg/L	0.010	0.005	09/09/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	0.30	NA	12/15/20	KB SM 5310 C
Particulate Organic Nitrogen		mg/L	0.10	NA	12/15/20	KB Calculation
Total Dissolved Nitrogen		mg/L	0.36	NA	12/15/20	KB Calculation
E coli		CFU/100mL	35	<1	09/09/20	RL @ 17:30 EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.

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Thursday, December 17, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201637

Date Received: 09/09/20

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	11:30	09/09/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.30	NA	10/04/20	KB	Calculation
Chloride grab	mg/L	29	3.0	09/10/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	1.5	0.017	09/21/20	RIA*	SM 5310 C
Boron	mg/L	0.063	0.010	09/22/20	KB	EPA 200.7
Nitrate-N	mg/L	0.05	0.01	09/10/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/10/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.25	0.2	10/01/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	72	6.0	09/13/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.044	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.25	0.20	10/01/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.1	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.07	NA	12/15/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.23	NA	12/15/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.007	0.005	09/09/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.40	NA	12/15/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	ND	NA	12/15/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.30	NA	12/15/20	KB	Calculation
E coli	CFU/100mL	<5	<1	09/09/20	RL @ 17:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

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FAX (508)888-6446

Thursday, December 17, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201638

Date Received: 09/09/20

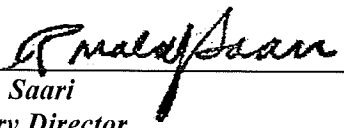
Sample Type		Sample Time	Sample Date	Comments		
S-6A	A	12:00	09/09/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Total Nitrogen		mg/L	0.49	NA	10/04/20	KB Calculation
Chloride grab		mg/L	21	3.0	09/10/20	LL EPA 300.0
Total Organic Carbon*		mg/L	1.6	0.017	09/21/20	RIA* SM 5310 C
Boron		mg/L	0.065	0.010	09/22/20	KB EPA 200.7
Nitrate-N		mg/L	0.21	0.01	09/10/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	09/10/20	LL EPA 300.0
Ammonia-N *		mg/L	BRL	0.02	09/24/20	RIA* SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	0.28	0.2	10/01/20	KB SM4500-Norg B-C
TDS-grab		mg/L	61	6.0	09/13/20	KB SM 2540 C
Total Phosphorous (P)		mg/L	0.046	0.005	09/17/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	0.23	0.20	10/01/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	1.6	0.017	09/21/20	RIA* EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	0.23	NA	12/16/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	0.21	NA	12/16/20	KB Calculation
Ortho Phosphorous (P)		mg/L	0.009	0.005	09/09/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	ND	NA	12/16/20	KB SM 5310 C
Particulate Organic Nitrogen		mg/L	0.05	NA	12/16/20	KB Calculation
Total Dissolved Nitrogen		mg/L	0.44	NA	12/16/20	KB Calculation
E coli		CFU/100mL	55	<1	09/09/20	RL @ 17:30 EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

com

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/9/20	1020	S-8A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria <i>e.coli</i>	NONE 45
9/9/20	1030	S-5B	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE 35

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

[Signature] 12⁴⁵ 09/09/20

SCANNED

COM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/9/20	1040	S-4A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE 90
9/9/20	1055	S-3A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE 35

WW-201635

WW-201636

1730 RL

Relinquished By: Date/Time

Kim Tan

Received By: Date/Time:

JS 12⁴⁵ 09/09/20

LM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

WW-201637

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/9/20	1130	S-2C	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE
9/9/20	1200	S-6A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE

1730 RL

55

Relinquished By: Date/Time

Kim Tower

Received By:

Date/Time:

Joe

09/09/20

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 9/17/2020
Date Reported: 9/25/2020
P.O. Number WW-201633-38B

Work Order #: 2009-15437

Project Name: PLYMOUTH ENV

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable, indication of sample analysis at our Hudson, MA laboratory and/or subcontracted results are noted and subcontracted reports are enclosed in their entirety.

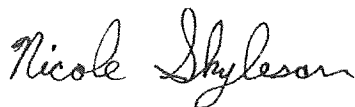
All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Nicole Skyleson
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):

Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508 Hudson MA * M-MA1117, RI LAO00319

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2009-15437

Project Name: PLYMOUTH ENV

Sample Number: 001
Sample Description: WW-201633 S-8A
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 10:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR
TOC	2.0	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.6	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS

Sample Number: 002
Sample Description: WW-201634 S-5B
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 10:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
TOC	1.9	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.6	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR

Sample Number: 003
Sample Description: WW-201635 S-4A
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
TOC	2.0	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.7	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR

Sample Number: 004
Sample Description: WW-201636 S-3A
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 10:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
TOC	1.5	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.2	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2009-15437

Project Name: PLYMOUTH ENV

Sample Number: 005
Sample Description: WW-201637 S-2C
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 11:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
TOC	1.5	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.1	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR

Sample Number: 006
Sample Description: WW-201638A S-6A
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 12:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
TOC	1.6	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.6	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR

Sample Number: 007
Sample Description: WW-201638B TRIP BLANK
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 17:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
DOC	<0.5	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS

CHAIN OF CUSTODY FORM										ENVIROTECH LABS, INC.			RI Analytical						
PWS:		Project Name:		Plymouth Env.		8 Jan Sebastian Dr., Unit 12		M RI 015			Address								
Sampler:		KT		(508)888-6460		1-800-339-6460		Phone#			401-737-8500								
Lab ID #		Date		Time		Comp		Grab		Station location		Container		Pres.		Sample type		Analysis requested	
WW-201633	09/09/20	1020			X	S-8A				P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)						
										plastic	H ₂ SO ₄	Surface water	Total TOC low						
										plastic	H ₂ SO ₄	Surface water	Dissolved TOC low						
WW-201634	09/09/20	1030			X	S-5B				P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)						
										plastic	H ₂ SO ₄	Surface water	Total TOC low						
										plastic	H ₂ SO ₄	Surface water	Dissolved TOC low						
WW-201635	09/09/20	1040			X	S-4A				P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)						
										plastic	H ₂ SO ₄	Surface water	Total TOC low						
										plastic	H ₂ SO ₄	Surface water	Dissolved TOC low						
WW-201636	09/09/20	1055			X	S-3A				P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)						
										plastic	H ₂ SO ₄	Surface water	Total TOC low						
										plastic	H ₂ SO ₄	Surface water	Dissolved TOC low						
WW-201637	09/09/20	1130			X	S-2C				P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)						
										plastic	H ₂ SO ₄	Surface water	Total TOC low						
										plastic	H ₂ SO ₄	Surface water	Dissolved TOC low						
WW-201638A	09/09/20	1200			X	S-6A				P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)						
										plastic	H ₂ SO ₄	Surface water	Total TOC low						
										plastic	H ₂ SO ₄	Surface water	Dissolved TOC low						
WW-201638B	09/09/20	1700			X	Trip Blank				P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)						
										plastic	H ₂ SO ₄	Surface water	Total TOC low						
										plastic	H ₂ SO ₄	Surface water	Dissolved TOC low						
										plastic	H ₂ SO ₄	DI water	Dissolved TOC low						
Relinquished:		Date/Time		Received:		Date/Time		Received:		Date/Time		Received:							
[Signature]		9/17/2000 1320		[Signature]		9/17/2000 1320		[Signature]		9/17/2000 1320		[Signature]							
Relinquished:		Date/Time		Received:		Date/Time		Received:		Date/Time		Received:							
[Signature]		9/17/2000 1525		[Signature]		9/17/2000 1525		[Signature]		9/17/2000 1525		[Signature]							

Contact lab with any exceeded MCL

Page 1 of 1

[illegible]

Dissolved Inorganic Nitrogen
Dissolved Organic Nitrogen
Particulate Organic Carbon
Particulate Organic Nitrogen

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River
Project Number: A13
Sampled By: Kim Tower
Lab Order Number: WW-201692
Date Received: 09/15/20

Comments:

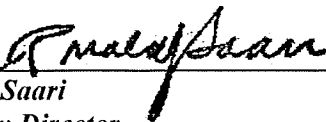
Sample Type	Sample Time	Sample Date	Comments			
A13 A	11:45	09/15/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	0.30	0.01	09/16/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/16/20	LL	EPA 300.0
Total Nitrogen	mg/L	0.72	NA	10/20/20	KB	Calculation
Total Dissolved Solids	mg/L	890	6.0	09/20/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	2.7	0.017	10/08/20	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	09/18/20	NEC*	*
Total Iron	mg/L	2.37	0.01	09/22/20	KB	EPA 200.7
Boron	mg/L	0.017	0.010	09/22/20	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/22/20	KB	EPA 200.7
Ammonia-N *	mg/L	0.22	0.02	10/09/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	10/14/20	KB	SM4500-Norg B-C
Chloride	mg/L	500	3.0	09/16/20	LL	EPA 300.0
Mercury*	mg/L	BRL	0.0005	10/14/20	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.040	0.005	09/23/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.40	0.20	10/14/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.3	0.017	10/08/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.52	NA	12/20/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.18	NA	12/20/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.010	0.005	09/18/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.40	NA	12/20/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.02	NA	12/20/20	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.70	NA	12/20/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River
Project Number: A13
Sampled By: Kim Tower
Lab Order Number: WW-201692
Date Received: 09/15/20

Comments:

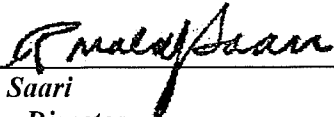
Sample Type		Sample Time	Sample Date	Comments		
A13	A	11:45	09/15/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

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By: 
Ronald J. Saari
Laboratory Director

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(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River
Project Number: A17
Sampled By: Kim Tower
Lab Order Number: WW-201693
Date Received: 09/15/20

Comments:

Sample Type	Sample Time	Sample Date	Comments			
A17 A	14:05	09/15/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	2.70	0.01	09/16/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/16/20	LL	EPA 300.0
Total Nitrogen	mg/L	<2.90	NA	10/20/20	KB	Calculation
Total Dissolved Solids	mg/L	360	6.0	09/20/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	BRL	0.017	10/08/20	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	09/18/20	NEC*	*
Total Iron	mg/L	0.02	0.01	09/22/20	KB	EPA 200.7
Boron	mg/L	BRL	0.010	09/22/20	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/22/20	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	10/09/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	BRL	0.2	10/16/20	KB	SM4500-Norg B-C
Chloride	mg/L	150	3.0	09/16/20	LL	EPA 300.0
Mercury*	mg/L	BRL	0.0005	10/14/20	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.012	0.005	09/23/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	10/16/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	BRL	0.017	10/08/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<2.72	NA	12/20/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.20	NA	12/20/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.009	0.005	09/18/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	12/20/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.20	NA	12/20/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<2.90	NA	12/20/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River
Project Number: A17
Sampled By: Kim Tower
Lab Order Number: WW-201693
Date Received: 09/15/20

Comments:

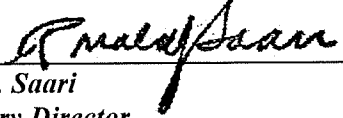
Sample Type		Sample Time	Sample Date	Comments		
A17	A	14:05	09/15/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

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 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K. Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: GW Eel River
Project Number: Bradford
Sampled By: Kim Tower
Lab Order Number: WW-201694
Date Received: 09/15/20

Comments:

Sample Type	Sample Time	Sample Date	Comments			
Bradford A	09:00	09/15/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	BRL	0.01	09/16/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/16/20	LL	EPA 300.0
Total Nitrogen	mg/L	<0.21	NA	10/04/20	KB	Calculation
Total Dissolved Solids	mg/L	38	6.0	09/20/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	0.82	0.017	10/08/20	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	09/18/20	NEC*	*
Total Iron	mg/L	3.65	0.01	09/22/20	KB	EPA 200.7
Boron	mg/L	BRL	0.010	09/22/20	KB	EPA 200.7
Copper	mg/L	0.004	0.003	09/22/20	KB	EPA 200.7
Ammonia-N *	mg/L	0.03	0.02	10/09/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	BRL	0.2	10/01/20	KB	SM4500-Norg B-C
Chloride	mg/L	14	3.0	09/16/20	LL	EPA 300.0
Mercury*	mg/L	BRL	0.0005	10/14/20	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.032	0.005	09/23/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	10/01/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.64	0.017	10/08/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.04	NA	12/20/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.17	NA	12/20/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	09/18/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.18	NA	12/20/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.20	NA	12/20/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.21	NA	12/20/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management

K.Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: GW Eel River

Comments:

Project Number: Bradford

Sampled By: Kim Tower

Lab Order Number: WW-201694

Date Received: 09/15/20

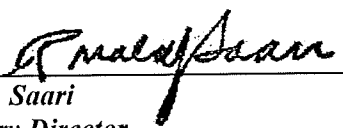
Sample Type		Sample Time	Sample Date	Comments		
Bradford	A	09:00	09/15/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

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*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K. Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: GW Eel River
Project Number: DW-1
Sampled By: Kim Tower
Lab Order Number: WW-201695
Date Received: 09/15/20

Comments:

Sample Type		Sample Time	Sample Date	Comments		
DW-1	A	10:00	09/15/20			
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	0.31	0.01	09/16/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/16/20	LL	EPA 300.0
Total Nitrogen	mg/L	0.78	NA	10/04/20	KB	Calculation
Total Dissolved Solids	mg/L	890	6.0	09/20/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	2.8	0.017	10/08/20	KB	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	09/18/20	NEC*	*
Total Iron	mg/L	2.47	0.01	09/22/20	KB	EPA 200.7
Boron	mg/L	0.017	0.010	09/22/20	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/22/20	KB	EPA 200.7
Ammonia-N *	mg/L	0.22	0.02	10/09/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.47	0.2	10/01/20	KB	SM4500-Norg B-C
Chloride	mg/L	500	3.0	09/16/20	LL	EPA 300.0
Mercury*	mg/L	BRL	0.0005	10/14/20	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.019	0.005	09/23/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.44	0.20	10/01/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.2	0.017	10/08/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.53	NA	12/20/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.22	NA	12/20/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.009	0.005	09/18/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.60	NA	12/20/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.03	NA	12/20/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.75	NA	12/20/20	KB	Calculation

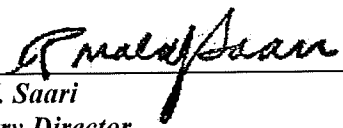
All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By:


 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River
Project Number: DW-1
Sampled By: Kim Tower
Lab Order Number: WW-201695
Date Received: 09/15/20

Comments:

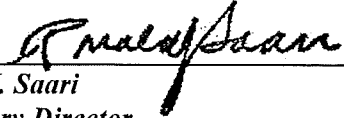
Sample Type		Sample Time	Sample Date	Comments		
DW-1	A	10:00	09/15/20			
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

LOM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Department of Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: GW Eel River -Plymouth MA
Sampler: Kim Tower (KT)

WW-201692

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/15/20	1145	A13	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN,TP, TOC	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Glass	Ortho-phosphate	NONE
9/15/20	1405	A17	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN,TP, TOC	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Glass	Ortho-phosphate	NONE

1693

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Boron, Chloride, Copper, Iron, Mercury, VOC

Relinquished By: Date/Time

Kim Ta

Received By: Date/Time:

[Signature] 09/15/20 1430

LJM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of CustodyClient:

Town of Plymouth - Department of Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: GW Eel River -Plymouth MA
Sampler: Kim Tower (KT)

WW 201694

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/15/20	0900	Bradford	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Glass	Ortho-phosphate	NONE
9/15/20	1000	DW-1	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Glass	Ortho-phosphate	NONE

1695

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Boron, Chloride, Copper, Iron, Mercury, VOC

Relinquished By: Date/Time

KTan

Received By:

Date/Time:

AK

09/15/20 1430

New England ChromaChem
6 Nichols Street
Salem, MA 01970
978-744-6600

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	9394
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-201692
State:	Liquid
Date Sampled:	09/15/20
Date Received:	09/18/20
Date Analyzed:	09/18/20

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	cis-1,2-dichloroethene	ND
Acrolein	ND	trans-1,2-dichloroethene	ND
Acrylonitrile	ND	1,2-Dichloropropane	ND
Benzene	ND	cis-1,3-dichloropropene	ND
Bromodichloromethane	ND	trans-1,3-dichloropropene	ND
Bromoform	ND	Ethylbenzene	ND
Bromomethane	ND	2-Hexanone	ND
2-Butanone	ND	Methylene Chloride	ND
Carbon Disulfide	ND	4-Methyl-2-pentanone	ND
Carbon Tetrachloride	ND	Methyl-tert-butyl ether	ND
Chlorobenzene	ND	Styrene	ND
Chloroethane	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethylvinyl Ether	ND	Tetrachloroethene	ND
Chloroform	ND	Toluene	ND
Chloromethane	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND
1,1-Dichloroethene	ND		

Surrogate Standard Recoveries

Benzene-d6	100
4-Bromofluorobenzene	101
1,2-Dichlorobenzene-d4	104

ND = < Method Detection Limit

NA = Not Analyzed

Method Detection Limit = 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42

MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director	09/21/20 Date
---	------------------

New England ChromaChem
6 Nichols Street
Salem, MA 01970
978-744-6600

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	9395
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-201693
State:	Liquid
Date Sampled:	09/15/20
Date Received:	09/18/20
Date Analyzed:	09/18/20

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	cis-1,2-dichloroethene	ND
Acrolein	ND	trans-1,2-dichloroethene	ND
Acrylonitrile	ND	1,2-Dichloropropane	ND
Benzene	ND	cis-1,3-dichloropropene	ND
Bromodichloromethane	ND	trans-1,3-dichloropropene	ND
Bromoform	ND	Ethylbenzene	ND
Bromomethane	ND	2-Hexanone	ND
2-Butanone	ND	Methylene Chloride	ND
Carbon Disulfide	ND	4-Methyl-2-pentanone	ND
Carbon Tetrachloride	ND	Methyl-tert-butyl ether	ND
Chlorobenzene	ND	Styrene	ND
Chloroethane	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethylvinyl Ether	ND	Tetrachloroethene	ND
Chloroform	ND	Toluene	ND
Chloromethane	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND
1,1-Dichloroethene	ND		

Surrogate Standard Recoveries

Benzene-d6	102
4-Bromofluorobenzene	106
1,2-Dichlorobenzene-d4	104

ND = < Method Detection Limit

NA = Not Analyzed

Method Detection Limit = 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42

MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director

09/21/20

Date

New England ChromaChem
6 Nichols Street
Salem, MA 01970
978-744-6600

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	9396
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-201694
State:	Liquid
Date Sampled:	09/15/20
Date Received:	09/18/20
Date Analyzed:	09/18/20

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	cis-1,2-dichloroethene	ND
Acrolein	ND	trans-1,2-dichloroethene	ND
Acrylonitrile	ND	1,2-Dichloropropane	ND
Benzene	ND	cis-1,3-dichloropropene	ND
Bromodichloromethane	ND	trans-1,3-dichloropropene	ND
Bromoform	ND	Ethylbenzene	ND
Bromomethane	ND	2-Hexanone	ND
2-Butanone	ND	Methylene Chloride	ND
Carbon Disulfide	ND	4-Methyl-2-pentanone	ND
Carbon Tetrachloride	ND	Methyl-tert-butyl ether	ND
Chlorobenzene	ND	Styrene	ND
Chloroethane	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethylvinyl Ether	ND	Tetrachloroethene	ND
Chloroform	ND	Toluene	ND
Chloromethane	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND
1,1-Dichloroethene	ND		

Surrogate Standard Recoveries

Benzene-d6	99
4-Bromofluorobenzene	107
1,2-Dichlorobenzene-d4	100

ND = < Method Detection Limit

NA = Not Analyzed

Method Detection Limit = 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42

MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director

09/21/20

Date

New England ChromaChem
6 Nichols Street
Salem, MA 01970
978-744-6600

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	9397
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-201695
State:	Liquid
Date Sampled:	09/15/20
Date Received:	09/18/20
Date Analyzed:	09/18/20

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	cis-1,2-dichloroethene	ND
Acrolein	ND	trans-1,2-dichloroethene	ND
Acrylonitrile	ND	1,2-Dichloropropane	ND
Benzene	ND	cis-1,3-dichloropropene	ND
Bromodichloromethane	ND	trans-1,3-dichloropropene	ND
Bromoform	ND	Ethylbenzene	ND
Bromomethane	ND	2-Hexanone	ND
2-Butanone	ND	Methylene Chloride	ND
Carbon Disulfide	ND	4-Methyl-2-pentanone	ND
Carbon Tetrachloride	ND	Methyl-tert-butyl ether	ND
Chlorobenzene	ND	Styrene	ND
Chloroethane	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethylvinyl Ether	ND	Tetrachloroethene	ND
Chloroform	ND	Toluene	ND
Chloromethane	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND
1,1-Dichloroethene	ND		

Surrogate Standard Recoveries

Benzene-d6	101
4-Bromofluorobenzene	100
1,2-Dichlorobenzene-d4	98

ND = < Method Detection Limit

NA = Not Analyzed

Method Detection Limit = 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42

MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director

09/21/20

Date

[illegible]

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 10/7/2020
Date Reported: 10/15/2020
P.O. Number WW-201692-201695B

Work Order #: 2010-16553

Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable, indication of sample analysis at our Hudson, MA laboratory and/or subcontracted results are noted and subcontracted reports are enclosed in their entirety.

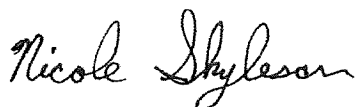
All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Nicole Skyleson
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):

Warwick RI * RI LA100033, MA M-RI015, CT PH-0508 Hudson MA * M-MA1117, RI LAO00319

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2010-16553

Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-201692 A13
Sample Type : GRAB
Sample Date / Time : 9/15/2020 @ 11:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.22	0.02	mg/l	SM4500NH3-B,H 18-21ed	10/9/2020 9:07	BR
TOC	2.7	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
DOC	2.3	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/14/2020 10:26	CEV
Mercury Digestion				EPA 245.1	10/14/2020 9:13	BB

Sample Number: 002
Sample Description: WW-201693 A17
Sample Type : GRAB
Sample Date / Time : 9/15/2020 @ 14:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	10/9/2020 9:07	BR
TOC	<0.5	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
DOC	<0.5	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/14/2020 10:33	CEV
Mercury Digestion				EPA 245.1	10/14/2020 9:13	BB

Sample Number: 003
Sample Description: WW-201694 BRADFORD
Sample Type : GRAB
Sample Date / Time : 9/15/2020 @ 09:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.03	0.02	mg/l	SM4500NH3-B,H 18-21ed	10/9/2020 9:07	BR
TOC	0.82	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
DOC	0.64	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/14/2020 10:34	CEV
Mercury Digestion				EPA 245.1	10/14/2020 9:13	BB

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2010-16553

Project Name: PLYMOUTH ENV.

Sample Number: 004
Sample Description: WW-201695A DW-1
Sample Type : GRAB
Sample Date / Time : 9/15/2020 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.22	0.02	mg/l	SM4500NH3-B,H 18-21ed	10/9/2020 9:07	BR
TOC	2.8	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
DOC	2.2	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/14/2020 10:36	CEV
Mercury Digestion				EPA 245.1	10/14/2020 9:13	BB

Sample Number: 005
Sample Description: WW-201695B TRIP BLANK
Sample Type : GRAB
Sample Date / Time : 9/15/2020 @ 17:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
DOC	<0.5	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS

CHAIN OF CUSTODY FORM

PWS: Project Name: **Plymouth Env.**

Sampler: **KT**

ENVIROTECH LABS, INC.

8 Jan Sebastian Dr., Unit 12
Sandwich, MA 02563
(508)888-6460
1-800-339-6460
FAX (508)888-6446

RI Analytical

M RI 015
Address 41 Illinois Avenue
Warwick, RI 02888
Phone# 401-737-8500
Fax# 401-738-1970

Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested
WW-201692	09/15/20	1145		X	A13	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low
						P	HNO ₃	Surface water	Hg
WW-201693	09/15/20	1405		X	A17	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low
						P	HNO ₃	Surface water	Hg
WW-201694	09/15/20	0900		X	Bradford	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low
						P	HNO ₃	Surface water	Hg
WW-201695A	09/15/20	1000		X	DW-1	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low
						P	HNO ₃	Surface water	Hg
WW-201695B	09/15/20	1700		X	Trip Blank	P	HNO ₃	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	DI water	Total TOC low
									Dissolved TOC low
									Hg
									Dissolved TOC low

Page 4 of 4

2010-16553

Relinquished:	Date/Time: 10/7/2020 1630	Received: <i>mun</i>	Contact lab with any exceeded MCL.
Relinquished: <i>mun</i>	Date/Time: 10/7/2020 1630	Received: <i>gar</i>	

ENVIROTECH LABORATORIES, INC.

MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, December 23, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: GW Eel River, Plymouth

Comments:

Project Number: A19

Sampled By: Kim Tower

Lab Order Number: WW-201724

Date Received: 09/17/20

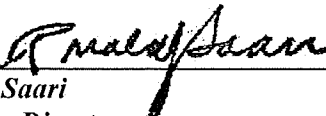
Sample Type		Sample Time	Sample Date	Comments		
A 19	A	09:30	09/17/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Total Nitrogen		mg/L	<1.8	NA	10/27/20	KB Calculation
Total Dissolved Solids		mg/L	130	6.0	09/23/20	KB SM 2540 C
Total Organic Carbon*		mg/L	0.76	0.017	10/08/20	RIA* SM 5310 C
Volatile Organic Compounds*		ug/L	ND	*	09/18/20	NEC* *
Total Iron		mg/L	BRL	0.01	10/01/20	KB EPA 200.7
Boron		mg/L	BRL	0.010	10/01/20	KB EPA 200.7
Copper		mg/L	BRL	0.003	10/01/20	KB EPA 200.7
Nitrate-N		mg/L	1.60	0.01	09/18/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	09/18/20	LL EPA 300.0
Ammonia-N *		mg/L	BRL	0.02	12/22/20	RIA* SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	BRL	0.2	10/16/20	KB SM4500-Norg B-C
Chloride		mg/L	44	3.0	09/18/20	LL EPA 300.0
Mercury*		mg/L	BRL	0.0005	10/14/20	RIA* EPA 245.1
Total Phosphorous (P)		mg/L	0.029	0.005	10/13/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	BRL	0.20	10/16/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	0.74	0.017	10/08/20	RIA* EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	1.6	NA	12/23/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	<0.20	NA	12/23/20	KB Calculation
Ortho Phosphorous (P)		mg/L	0.014	0.005	09/18/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	0.02	NA	12/20/20	RIA* SM 5310 C
Particulate Organic Nitrogen		mg/L	<0.20	NA	12/23/20	KB Calculation
Total Dissolved Nitrogen		mg/L	<1.8	NA	12/23/20	KB Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, December 23, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River, Plymouth **Comments:**
Project Number: A19
Sampled By: Kim Tower
Lab Order Number: WW-201724
Date Received: 09/17/20

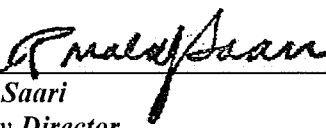
Sample Type		Sample Time	Sample Date	Comments		
A 19	A	09:30	09/17/20			
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Wednesday, December 23, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: GW Eel River, Plymouth

Comments:

Project Number: 2 SR

Sampled By: Kim Tower

Lab Order Number: WW-201725

Date Received: 09/17/20

Sample Type	Sample Time	Sample Date	Comments			
2 SR A	10:15	09/17/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	1.4	NA	10/27/20	KB	Calculation
Total Dissolved Solids	mg/L	400	6.0	09/23/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	0.75	0.017	10/09/20	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	09/18/20	NEC*	*
Total Iron	mg/L	9.83	0.01	10/02/20	KB	EPA 200.7
Boron	mg/L	0.025	0.010	10/01/20	KB	EPA 200.7
Copper	mg/L	BRL	0.003	10/01/20	KB	EPA 200.7
Nitrate-N	mg/L	1.20	0.01	09/18/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/18/20	LL	EPA 300.0
Ammonia-N *	mg/L	0.03	0.02	12/22/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.21	0.2	10/16/20	KB	SM4500-Norg B-C
Chloride	mg/L	170	3.0	09/18/20	LL	EPA 300.0
Mercury*	mg/L	BRL	0.0005	10/14/20	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.051	0.005	10/13/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	10/16/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.60	0.017	10/09/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	1.23	NA	12/23/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.18	NA	12/23/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.032	0.005	09/18/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.15	NA	12/23/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.21	NA	12/23/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<1.4	NA	12/23/20	KB	Calculation

BRL=below reportable limits

*see attached

By:


 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.

MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, December 23, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River, Plymouth
Project Number: 2 DR
Sampled By: Kim Tower
Lab Order Number: WW-201726
Date Received: 09/17/20

Comments:

Sample Type	Sample Time	Sample Date	Comments			
2 DR A	10:50	09/17/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	<1.8	NA	12/23/20	KB	Calculation
Total Dissolved Solids	mg/L	130	6.0	09/23/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	0.69	0.017	10/09/20	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	09/19/20	NEC*	*
Total Iron	mg/L	BRL	0.01	10/01/20	KB	EPA 200.7
Boron	mg/L	BRL	0.010	10/01/20	KB	EPA 200.7
Copper	mg/L	BRL	0.003	10/01/20	KB	EPA 200.7
Nitrate-N	mg/L	1.60	0.01	09/18/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/18/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	12/22/20	KB	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	BRL	0.2	10/16/20	KB	SM4500-Norg B-C
Chloride	mg/L	49	3.0	09/18/20	LL	EPA 300.0
Mercury*	mg/L	BRL	0.0005	10/14/20	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.005	0.005	10/13/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	10/16/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.65	0.017	10/09/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	1.6	NA	12/23/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.20	NA	12/23/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	09/18/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.04	NA	12/23/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.20	NA	12/23/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<1.8	NA	12/23/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.

MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, December 23, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River, Plymouth
Project Number: 2 DR
Sampled By: Kim Tower
Lab Order Number: WW-201726
Date Received: 09/17/20

Comments:

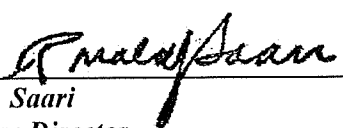
Sample Type		Sample Time	Sample Date	Comments		
2 DR	A	10:50	09/17/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

New England ChromaChem
6 Nichols Street
Salem, MA 01970
978-744-6600

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	9400
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-201724
State:	Liquid
Date Sampled:	09/17/20
Date Received:	09/18/20
Date Analyzed:	09/18/20

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	cis-1,2-dichloroethene	ND
Acrolein	ND	trans-1,2-dichloroethene	ND
Acrylonitrile	ND	1,2-Dichloropropane	ND
Benzene	ND	cis-1,3-dichloropropene	ND
Bromodichloromethane	ND	trans-1,3-dichloropropene	ND
Bromoform	ND	Ethylbenzene	ND
Bromomethane	ND	2-Hexanone	ND
2-Butanone	ND	Methylene Chloride	ND
Carbon Disulfide	ND	4-Methyl-2-pentanone	ND
Carbon Tetrachloride	ND	Methyl-tert-butyl ether	ND
Chlorobenzene	ND	Styrene	ND
Chloroethane	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethylvinyl Ether	ND	Tetrachloroethene	ND
Chloroform	ND	Toluene	ND
Chloromethane	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND
1,1-Dichloroethene	ND		

Surrogate Standard Recoveries

Benzene-d6	95
4-Bromofluorobenzene	107
1,2-Dichlorobenzene-d4	101

ND = < Method Detection Limit

NA = Not Analyzed

Method Detection Limit = 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42

MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director

09/21/20
Date

New England ChromaChem
6 Nichols Street
Salem, MA 01970
978-744-6600

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	9401
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-201725
State:	Liquid
Date Sampled:	09/17/20
Date Received:	09/18/20
Date Analyzed:	09/18/20

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	cis-1,2-dichloroethene	ND
Acrolein	ND	trans-1,2-dichloroethene	ND
Acrylonitrile	ND	1,2-Dichloropropane	ND
Benzene	ND	cis-1,3-dichloropropene	ND
Bromodichloromethane	ND	trans-1,3-dichloropropene	ND
Bromoform	ND	Ethylbenzene	ND
Bromomethane	ND	2-Hexanone	ND
2-Butanone	ND	Methylene Chloride	ND
Carbon Disulfide	ND	4-Methyl-2-pentanone	ND
Carbon Tetrachloride	ND	Methyl-tert-butyl ether	ND
Chlorobenzene	ND	Styrene	ND
Chloroethane	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethylvinyl Ether	ND	Tetrachloroethene	ND
Chloroform	ND	Toluene	ND
Chloromethane	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND
1,1-Dichloroethene	ND		

Surrogate Standard Recoveries

Benzene-d6	102
4-Bromofluorobenzene	103
1,2-Dichlorobenzene-d4	108

ND = < Method Detection Limit

NA = Not Analyzed

Method Detection Limit = 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42

MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director

09/21/20

Date

New England ChromaChem
6 Nichols Street
Salem, MA 01970
978-744-6600

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	9402
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-201726
State:	Liquid
Date Sampled:	09/17/20
Date Received:	09/18/20
Date Analyzed:	09/19/20

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	cis-1,2-dichloroethene	ND
Acrolein	ND	trans-1,2-dichloroethene	ND
Acrylonitrile	ND	1,2-Dichloropropane	ND
Benzene	ND	cis-1,3-dichloropropene	ND
Bromodichloromethane	ND	trans-1,3-dichloropropene	ND
Bromoform	ND	Ethylbenzene	ND
Bromomethane	ND	2-Hexanone	ND
2-Butanone	ND	Methylene Chloride	ND
Carbon Disulfide	ND	4-Methyl-2-pentanone	ND
Carbon Tetrachloride	ND	Methyl-tert-butyl ether	ND
Chlorobenzene	ND	Styrene	ND
Chloroethane	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethylvinyl Ether	ND	Tetrachloroethene	ND
Chloroform	ND	Toluene	ND
Chloromethane	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND
1,1-Dichloroethene	ND		

Surrogate Standard Recoveries

Benzene-d6	103
4-Bromofluorobenzene	107
1,2-Dichlorobenzene-d4	97

ND = < Method Detection Limit

NA = Not Analyzed

Method Detection Limit = 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42

MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director

09/21/20
Date



Chain of Custody

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:

Town of Plymouth - Department of Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 / 508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **GW Eel River** -Plymouth MA
Sampler: Kim Tower (KT)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9.17.20	0930	A19	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Glass	Ortho-phosphate	NONE
9.17.20	1015	2SR	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Glass	Ortho-phosphate	NONE

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Boron, Chloride, Copper, Iron, Mercury, VOC

Relinquished By: Date/Time

KT

Received By: Date/Time:

SD

9/17/20 14:00

SCANNED

DEC 23 2020

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Department of Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 / 508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **GW Eel River -Plymouth MA**
Sampler: Kim Tower (KT)

WV 201726

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9.17.20	10:50	2152	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Glass	Ortho-phosphate	NONE
9.17.20	10:55	55	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Glass	Ortho-phosphate	NONE

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Boron, Chloride, Copper, Iron, Mercury, VOC

Relinquished By: Date/Time

KT

Received By: Date/Time:

SD 9/17/20 14:00

ENVIROTECH LABORATORIES, INC.

MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River
Project Number: A15
Sampled By: Kim Tower
Lab Order Number: WW-201704
Date Received: 09/16/20

Comments:

Sample Type	Sample Time	Sample Date	Comments			
A15 A	11:20	09/16/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Kjeldhal Nitrogen	mg/L	BRL	0.60	10/20/20	KB	SM4500-Norg B-C
Nitrate-N	mg/L	1.90	0.01	09/16/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/16/20	LL	EPA 300.0
Total Nitrogen	mg/L	<2.1	NA	10/30/20	KB	Calculation
Total Dissolved Solids	mg/L	170	6.0	09/20/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	BRL	0.017	10/08/20	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	09/18/20	NEC*	*
Total Iron	mg/L	0.06	0.01	09/25/20	KB	EPA 200.7
Boron	mg/L	BRL	0.010	09/25/20	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/25/20	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	10/09/20	RIA*	SM4500 NH3 C
Chloride	mg/L	63	3.0	09/16/20	LL	EPA 300.0
Mercury*	mg/L	BRL	0.0005	09/16/20	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.036	0.005	09/23/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	10/20/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.52	0.017	10/09/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<2.1	NA	12/20/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.20	NA	12/20/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.019	0.005	09/18/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	12/20/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.20	NA	12/20/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<2.1	NA	12/20/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River
Project Number: A15
Sampled By: Kim Tower
Lab Order Number: WW-201704
Date Received: 09/16/20

Comments:

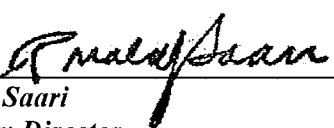
Sample Type		Sample Time	Sample Date	Comments		
A15	A	11:20	09/16/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K. Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: GW Eel River
Project Number: 7SR
Sampled By: Kim Tower
Lab Order Number: WW-201705
Date Received: 09/16/20

Comments:

Sample Type	Sample Time	Sample Date	Comments			
7SR A	13:00	09/16/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Kjeldhal Nitrogen	mg/L	BRL	0.60	10/20/20	KB	SM4500-Norg B-C
Nitrate-N	mg/L	0.33	0.01	09/16/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/16/20	LL	EPA 300.0
Total Nitrogen	mg/L	<0.53	NA	10/30/20	KB	Calculation
Total Dissolved Solids	mg/L	440	6.0	09/20/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	BRL	0.017	10/08/20	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	09/18/20	NEC*	*
Total Iron	mg/L	0.13	0.01	09/25/20	KB	EPA 200.7
Boron	mg/L	BRL	0.010	09/25/20	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/25/20	KB	EPA 200.7
Ammonia-N *	mg/L	0.02	0.02	10/09/20	RIA*	SM4500 NH3 C
Chloride	mg/L	224	3.0	09/16/20	LL	EPA 300.0
Mercury*	mg/L	BRL	0.0005	10/14/20	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.005	0.005	09/23/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	10/20/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.54	0.017	10/08/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.35	NA	12/20/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.18	NA	12/20/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	09/18/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	12/20/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.20	NA	12/20/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.53	NA	12/20/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: GW Eel River
Project Number: 7SR
Sampled By: Kim Tower
Lab Order Number: WW-201705
Date Received: 09/16/20

Comments:

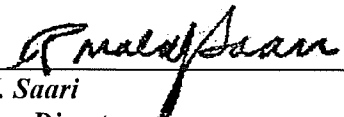
Sample Type		Sample Time	Sample Date	Comments		
7SR	A	13:00	09/16/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

LOM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Department of Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **GW Eel River -Plymouth MA**
Sampler: Kim Tower (KT)

WW 201704

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/16/20	1120	A15	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN,TP, TOC	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Glass	Ortho-phosphate	NONE
9/16/20	1300	752	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN,TP, TOC	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Glass	Ortho-phosphate	NONE

WW 201705

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Boron, Chloride, Copper, Iron, Mercury, VOC

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

[Signature] 09/16/20 1330

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 10/7/2020
Date Reported: 10/15/2020
P.O. Number WW-201704-705A/B

Work Order #: 2010-16565

Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable, indication of sample analysis at our Hudson, MA laboratory and/or subcontracted results are noted and subcontracted reports are enclosed in their entirety.

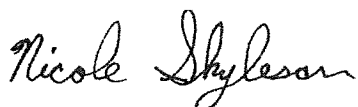
All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Nicole Skyleson
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):

Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508 Hudson MA * M-MA1117, RI LAO00319

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2010-16565

Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-201704 A15
Sample Type : GRAB
Sample Date / Time : 9/16/2020 @ 11:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	10/9/2020 9:07	BR
TOC	<0.5	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
DOC	0.52	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/14/2020 10:40	CEV
Mercury Digestion				EPA 245.1	10/14/2020 9:13	BB

Sample Number: 002
Sample Description: WW-201705A 7SR
Sample Type : GRAB
Sample Date / Time : 9/16/2020 @ 13:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	10/9/2020 9:07	BR
TOC	<0.5	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
DOC	0.54	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	10/14/2020 10:41	CEV
Mercury Digestion				EPA 245.1	10/14/2020 9:13	BB

Sample Number: 003
Sample Description: WW-201705B TRIP BLANK
Sample Type : GRAB
Sample Date / Time : 9/16/2020 @ 17:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
DOC	<0.5	0.5	mg/l	SM5310C 21 ed.	10/8/2020 7:49	SAS

New England ChromaChem
6 Nichols Street
Salem, MA 01970
978-744-6600

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	9398
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-201704
State:	Liquid
Date Sampled:	09/16/20
Date Received:	09/18/20
Date Analyzed:	09/18/20

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	cis-1,2-dichloroethene	ND
Acrolein	ND	trans-1,2-dichloroethene	ND
Acrylonitrile	ND	1,2-Dichloropropane	ND
Benzene	ND	cis-1,3-dichloropropene	ND
Bromodichloromethane	ND	trans-1,3-dichloropropene	ND
Bromoform	ND	Ethylbenzene	ND
Bromomethane	ND	2-Hexanone	ND
2-Butanone	ND	Methylene Chloride	ND
Carbon Disulfide	ND	4-Methyl-2-pentanone	ND
Carbon Tetrachloride	ND	Methyl-tert-butyl ether	ND
Chlorobenzene	ND	Styrene	ND
Chloroethane	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethylvinyl Ether	ND	Tetrachloroethene	ND
Chloroform	ND	Toluene	ND
Chloromethane	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND
1,1-Dichloroethene	ND		

Surrogate Standard Recoveries

Benzene-d6	99
4-Bromofluorobenzene	105
1,2-Dichlorobenzene-d4	100

ND = < Method Detection Limit

NA = Not Analyzed

Method Detection Limit = 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42

MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director

09/21/20

Date

New England ChromaChem
6 Nichols Street
Salem, MA 01970
978-744-6600

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	9399
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-201705
State:	Liquid
Date Sampled:	09/16/20
Date Received:	09/18/20
Date Analyzed:	09/18/20

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	cis-1,2-dichloroethene	ND
Acrolein	ND	trans-1,2-dichloroethene	ND
Acrylonitrile	ND	1,2-Dichloropropane	ND
Benzene	ND	cis-1,3-dichloropropene	ND
Bromodichloromethane	ND	trans-1,3-dichloropropene	ND
Bromoform	ND	Ethylbenzene	ND
Bromomethane	ND	2-Hexanone	ND
2-Butanone	ND	Methylene Chloride	ND
Carbon Disulfide	ND	4-Methyl-2-pentanone	ND
Carbon Tetrachloride	ND	Methyl-tert-butyl ether	ND
Chlorobenzene	ND	Styrene	ND
Chloroethane	ND	1,1,2,2-Tetrachloroethane	ND
2-Chloroethylvinyl Ether	ND	Tetrachloroethene	ND
Chloroform	ND	Toluene	ND
Chloromethane	ND	1,1,1-Trichloroethane	ND
Dibromochloromethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND
1,1-Dichloroethene	ND		

Surrogate Standard Recoveries

Benzene-d6	100
4-Bromofluorobenzene	105
1,2-Dichlorobenzene-d4	107

ND = < Method Detection Limit

NA = Not Analyzed

Method Detection Limit = 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42

MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director

09/21/20

Date

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, July 10, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Harbor Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200807

Date Received: 06/03/20

Sample Type	Sample Time	Sample Date	Comments			
S-10 Ebb A	10:10	06/03/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	0.04	0.02	06/04/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	5.17	NA	06/07/20	Alpha*	Calculation
E-coli	CFU/100 mL	10	<1	06/03/20	KF @ 17:30	SM 9213 D
Total Organic Carbon*	mg/L	<0.50	0.017	06/15/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	<0.02	0.02	06/15/20	RIA	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	06/09/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.019	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	06/09/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	<0.50	0.017	06/15/20	RIA	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.06	NA	07/10/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	07/10/20	KB	Calculation
Chlorophyll-a	*	5.17	*	06/07/20	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.009	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	<0.50	NA	07/10/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.07	NA	07/10/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.25	NA	07/10/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: _____

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, July 10, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Harbor Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200808

Date Received: 06/03/20

Sample Type	Sample Time	Sample Date	Comments			
S-7 Ebb A	10:20	06/03/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	0.04	0.02	06/04/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.38	NA	07/10/20	KB	Calculation
E-coli	CFU/100 mL	70	<1	06/03/20	KF @ 17:30	SM 9213 D
Total Organic Carbon*	mg/L	<0.5	0.017	06/15/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	<0.02	0.02	06/15/20	RIA	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.34	0.2	06/14/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.035	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.24	0.20	06/14/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	<0.5	0.017	06/15/20	RIA	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.06	NA	07/10/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.24	NA	07/10/20	KB	Calculation
Chlorophyll-a	*	3.55	*	06/07/20	Alpha	*
Ortho Phosphorous (P)	mg/L	0.014	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	<0.5	NA	07/10/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.10	NA	07/10/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.28	NA	07/10/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: _____
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.

MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, July 10, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Harbor Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200809

Date Received: 06/03/20

Sample Type	Sample Time	Sample Date	Comments			
S-10 HST A	12:00	06/03/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	0.03	0.02	06/04/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.42	NA	07/10/20	KB	Calculation
E-coli	CFU/100 mL	<5	<1	06/03/20	KF @ 17:30	SM 9213 D
Total Organic Carbon*	mg/L	<0.5	0.017	06/15/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	<0.02	0.02	06/15/20	RIA	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.39	0.2	06/14/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.017	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.27	0.20	06/14/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	<0.5	0.017	06/15/20	RIA	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.05	NA	07/10/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.27	NA	07/10/20	KB	Calculation
Chlorophyll-a	*	5.12	*	06/07/20	Alpha	*
Ortho Phosphorous (P)	mg/L	0.010	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	<0.5	NA	07/10/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.12	NA	07/10/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.30	NA	07/10/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: _____

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.

MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, July 10, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Harbor Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200810

Date Received: 06/03/20

Sample Type	Sample Time	Sample Date	Comments			
S-7 HST A	12:10	06/03/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	0.01	0.02	06/04/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.36	NA	07/10/20	KB	Calculation
E-coli	CFU/100 mL	20	<1	06/03/20	KF @ 17:30	SM 9213 D
Total Organic Carbon*	mg/L	<0.5	0.017	06/15/20	RIA	SM 5310 C
Ammonia-N *	mg/L	<0.02	0.02	06/15/20	RIA	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.35	0.2	06/14/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.019	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.32	0.20	06/14/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	<0.5	0.017	06/15/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	07/10/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.32	NA	07/10/20	KB	Calculation
Chlorophyll-a	*	3.94	*	06/07/20	Alpha	*
Ortho Phosphorous (P)	mg/L	0.011	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	<0.5	NA	07/10/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.03	NA	07/10/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.33	NA	07/10/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: _____

Ronald J. Saari

Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Friday, July 10, 2020

Plymouth Environmental Management
 K. Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: Harbor Sampling, Plymouth **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-200811
Date Received: 06/03/20

Sample Type	Sample Time	Sample Date	Comments			
S-8 HST A	12:20	06/03/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	0.01	0.02	06/04/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.38	NA	07/10/20	KB	Calculation
E-coli	CFU/100 mL	15	<1	06/03/20	KF @ 17:30	SM 9213 D
Total Organic Carbon*	mg/L	<0.5	0.017	06/15/20	RIA	SM 5310 C
Ammonia-N *	mg/L	<0.02	0.02	06/15/20	RIA	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.37	0.2	06/14/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.019	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.29	0.20	06/14/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	<0.5	0.017	06/15/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	07/10/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.29	NA	07/10/20	KB	Calculation
Chlorophyll-a	*	4.12	*	06/07/20	Alpha	*
Ortho Phosphorous (P)	mg/L	0.012	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	<0.5	NA	07/10/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.08	NA	07/10/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.30	NA	07/10/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: _____
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, August 7, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Harbor Sampling-Plymouth, MA **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-201062
Date Received: 07/01/20

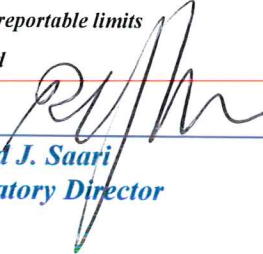
Sample Type	Sample Time	Sample Date	Comments			
S-10 HST A	10:50	07/01/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	<0.01	0.02	07/02/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.38	NA	07/27/20	KB	Calculation
E-coli	CFU/100 mL	10	<1	07/01/20	KF @ 15:00	SM 9213 D
Total Organic Carbon*	mg/L	0.61	0.017	07/09/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.06	0.02	07/01/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.38	0.2	07/27/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.016	0.005	07/20/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.34	0.20	07/27/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.60	0.017	07/09/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.06	NA	08/07/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.28	NA	08/07/20	KB	Calculation
Chlorophyll-a	*	4.79	*	07/05/20	Microbac*	*
Ortho Phosphorous (P)	mg/L	0.015	0.005	07/01/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.01	NA	08/07/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.04	NA	08/07/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.34	NA	08/06/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, August 7, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Harbor Sampling-Plymouth, MA

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201063

Date Received: 07/01/20

Sample Type	Sample Time	Sample Date	Comments			
S-7 HST A	11:00	07/01/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	<0.01	0.02	07/02/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.57	NA	07/27/20	KB	Calculation
E-coli	CFU/100 mL	20	<1	07/01/20	KF @ 15:00	SM 9213 D
Total Organic Carbon*	mg/L	0.72	0.017	07/13/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.06	0.02	07/01/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.57	0.2	07/27/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.23	0.005	07/20/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.44	0.20	07/27/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.66	0.017	07/13/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.06	NA	08/07/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.38	NA	08/07/20	KB	Calculation
Chlorophyll-a	*	5.97	*	07/05/20	Microbac*	*
Ortho Phosphorous (P)	mg/L	0.017	0.005	07/01/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.06	NA	08/07/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.13	NA	08/07/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.44	NA	08/06/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By:

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, August 7, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Harbor Sampling-Plymouth, MA

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201064

Date Received: 07/01/20

Sample Type	Sample Time	Sample Date	Comments			
S-10 Ebb A	09:00	07/01/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	<0.01	0.02	07/02/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.59	NA	07/27/20	KB	Calculation
E-coli	CFU/100 mL	<5	<1	07/01/20	KF @ 15:00	SM 9213 D
Total Organic Carbon*	mg/L	0.73	0.017	07/09/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.14	0.02	07/01/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.59	0.2	07/27/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.022	0.005	07/20/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.50	0.20	07/27/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.64	0.017	07/09/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.14	NA	08/07/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.36	NA	08/07/20	KB	Calculation
Chlorophyll-a	*	10.9	*	07/05/20	Microbac*	*
Ortho Phosphorous (P)	mg/L	0.013	0.005	07/01/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.09	NA	08/07/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.09	NA	08/07/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.50	NA	08/06/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, August 7, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Harbor Sampling-Plymouth, MA **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-201065
Date Received: 07/01/20

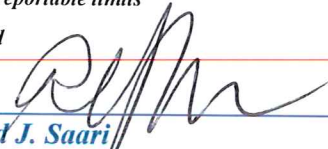
Sample Type	Sample Time	Sample Date	Comments			
S-7 Ebb A	09:20	07/01/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	0.12	0.02	07/02/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.95	NA	07/27/20	KB	Calculation
E-coli	CFU/100 mL	80	<1	07/01/20	KF @ 15:00	SM 9213 D
Total Organic Carbon*	mg/L	1.3	0.017	07/09/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.29	0.02	07/01/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.83	0.2	07/27/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.039	0.005	07/20/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.49	0.20	07/27/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.64	0.017	07/09/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.41	NA	08/07/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.20	NA	08/07/20	KB	Calculation
Chlorophyll-a	*	24.8	*	07/05/20	Microbac*	*
Ortho Phosphorous (P)	mg/L	0.035	0.005	07/01/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.66	NA	08/07/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.46	NA	08/07/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.61	NA	08/06/20	KB	Calculation

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, August 7, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Harbor Sampling-Plymouth, MA

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201066

Date Received: 07/01/20

Sample Type	Sample Time	Sample Date	Comments			
S-8A HST A	11:10	07/01/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	<0.01	0.02	07/02/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.46	NA	07/27/20	KB	Calculation
E-coli	CFU/100 mL	30	<1	07/01/20	KF @ 15:00	SM 9213 D
Total Organic Carbon*	mg/L	0.66	0.017	07/13/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.08	0.02	07/01/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.46	0.2	07/27/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.033	0.005	07/20/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.41	0.20	07/27/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.65	0.017	07/13/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.08	NA	08/07/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.33	NA	08/07/20	KB	Calculation
Chlorophyll-a	*	6.49	*	07/05/20	Microbac*	*
Ortho Phosphorous (P)	mg/L	0.024	0.005	07/01/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.01	NA	08/07/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.05	NA	08/07/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.41	NA	08/06/20	KB	Calculation

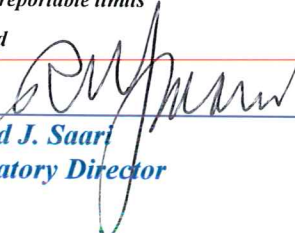
All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By:


Ronald J. Saari
Laboratory Director

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 7/8/2020
Date Reported: 7/14/2020
P.O. Number WW-201062-6

Work Order #: 2007-10876

Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable, indication of sample analysis at our Hudson, MA laboratory and/or subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Nicole Skyleson
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):

Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508 Hudson MA * M-MA1117, RI LAO00319

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2007-10876

Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-201062 S-10 HST
Sample Type : GRAB
Sample Date / Time : 7/01/2020 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.06	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/13/2020 10:34	AEH
TOC	0.61	0.5	mg/l	SM5310C 21 ed.	7/9/2020 15:23	SAS
DOC	0.60	0.5	mg/l	SM5310C 21 ed.	7/9/2020 15:23	SAS

Sample Number: 002
Sample Description: WW-201063 S-7 HST
Sample Type : GRAB
Sample Date / Time : 7/01/2020 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.06	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/13/2020 10:34	AEH
TOC	0.72	0.5	mg/l	SM5310C 21 ed.	7/13/2020 14:46	BR
DOC	0.66	0.5	mg/l	SM5310C 21 ed.	7/13/2020 14:46	BR

Sample Number: 003
Sample Description: WW-201064 S-10 EBB
Sample Type : GRAB
Sample Date / Time : 7/01/2020 @ 09:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.14	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/13/2020 10:34	AEH
TOC	0.73	0.5	mg/l	SM5310C 21 ed.	7/9/2020 15:23	SAS
DOC	0.64	0.5	mg/l	SM5310C 21 ed.	7/9/2020 15:23	SAS

Total Organic Carbon: Sulfuric preserved container received had a pH >2; pH was adjusted to <2 as soon as possible upon receipt.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2007-10876

Project Name: PLYMOUTH ENV.

Sample Number: 004
Sample Description: WW-201065 S-7 EBB
Sample Type : GRAB
Sample Date / Time : 7/01/2020 @ 09:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.29	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/13/2020 10:34	AEH
TOC	1.3	0.5	mg/l	SM5310C 21 ed.	7/9/2020 15:23	SAS
DOC	0.64	0.5	mg/l	SM5310C 21 ed.	7/9/2020 15:23	SAS

Sample Number: 005
Sample Description: WW-201066 S-8A HST
Sample Type : GRAB
Sample Date / Time : 7/01/2020 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.08	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/13/2020 10:34	AEH
TOC	0.66	0.5	mg/l	SM5310C 21 ed.	7/13/2020 14:46	BR
DOC	0.65	0.5	mg/l	SM5310C 21 ed.	7/13/2020 14:46	BR

Total Organic Carbon: Sulfuric preserved container received had a pH >2; pH was adjusted to <2 as soon as possible upon receipt.

CHAIN OF CUSTODY FORM

PWS:

Project Name: Plymouth Env.

Sampler:

KT

ENVIROTECH LABS, INC.

8 Jan Sebastian Dr., Unit 12

Sandwich, MA 02563

(508)888-6460

1-800-339-6460

FAX (508)888-6446

RI Analytical

M RI 015

Address
41 Illinois Avenue
Warwick, RI 02888Phone#
401-737-8500Fax#
401-738-1970

Analysis requested

Ammonia-N (0.02 mdl)

Total TOC low

Total TOC low (diss)

Ammonia-N (0.02 mdl)

Total TOC low

Total TOC low (diss)

Ammonia-N (0.02 mdl)

Total TOC low

Total TOC low (diss)

Ammonia-N (0.02 mdl)

Total TOC low

Total TOC low (diss)

Ammonia-N (0.02 mdl)

Total TOC low

Total TOC low (diss)

Ammonia-N low level 0.02 mg/L

Relinquished:

Date/Time 07/01/20 1335

Received:

Relinquished:

Date/Time 7/8/2020 1555

Received:

TOC dissolved samples are filtered
Contact lab with any exceeded MCL

MCL 4.0°C

2007-10876



ANALYTICAL REPORT

Lab Number:	L2027843
Client:	Envirotech Laboratories, Inc. 8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563
ATTN:	Ron Saari
Phone:	(800) 339-6460
Project Name:	PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number:	Not Specified
Report Date:	07/07/20

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019

508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

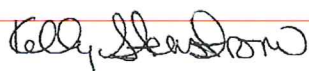
Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Kelly Stenstrom

Title: Technical Director/Representative

Date: 07/07/20

INORGANICS & MISCELLANEOUS

Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.

Lab Number: L2027843

Project Number: Not Specified

Report Date: 07/07/20

SAMPLE RESULTS

Lab ID: L2027843-01

Date Collected: 07/01/20 10:50

Client ID: WW-201062

Date Received: 07/01/20

Sample Location: Not Specified

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	4.79		mg/m3	2.00	NA	1	07/02/20 03:15	07/05/20 12:20	121,10200H	AG



Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

SAMPLE RESULTS

Lab ID: L2027843-02
Client ID: WW-201063
Sample Location: Not Specified

Date Collected: 07/01/20 11:00
Date Received: 07/01/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	5.97		mg/m3	2.00	NA	1	07/02/20 03:15	07/05/20 12:20	121,10200H	AG



Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

SAMPLE RESULTS

Lab ID: L2027843-03
Client ID: WW-201064
Sample Location: Not Specified

Date Collected: 07/01/20 09:00
Date Received: 07/01/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	10.9		mg/m3	2.00	NA	1	07/02/20 03:15	07/05/20 12:20	121,10200H	AG

Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

SAMPLE RESULTS

Lab ID: L2027843-04
Client ID: WW-201065
Sample Location: Not Specified

Date Collected: 07/01/20 09:20
Date Received: 07/01/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	24.8		mg/m3	2.00	NA	1	07/02/20 03:15	07/05/20 12:20	121,10200H	AG

Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

SAMPLE RESULTS

Lab ID: L2027843-05
Client ID: WW-201066
Sample Location: Not Specified

Date Collected: 07/01/20 11:10
Date Received: 07/01/20
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	6.49		mg/m3	2.00	NA	1	07/02/20 03:15	07/05/20 12:20	121,10200H	AG



Project Name: PLYMOUTH ENVIRONMENTAL MNGV
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1388295-1										
Chlorophyll A	ND		mg/m3	2.00	NA	1	07/02/20 03:15	07/05/20 12:20	121,10200H	AG

Lab Duplicate Analysis
Batch Quality Control

Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1388295-2 QC Sample: L2027843-01 Client ID: WW-201062						
Chlorophyll A	4.79	4.47	mg/m3	7		35



Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler A
Custody Seal Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2027843-01A	Brown Plastic 1000ml unpreserved	A	NA		5.2	Y	Absent		CHLORO-A(1)
L2027843-01B	Brown Plastic 1000ml unpreserved	A	NA		5.2	Y	Absent		CHLORO-A(1)
L2027843-02A	Brown Plastic 1000ml unpreserved	A	NA		5.2	Y	Absent		CHLORO-A(1)
L2027843-02B	Brown Plastic 1000ml unpreserved	A	NA		5.2	Y	Absent		CHLORO-A(1)
L2027843-03A	Brown Plastic 1000ml unpreserved	A	NA		5.2	Y	Absent		CHLORO-A(1)
L2027843-03B	Brown Plastic 1000ml unpreserved	A	NA		5.2	Y	Absent		CHLORO-A(1)
L2027843-04A	Brown Plastic 1000ml unpreserved	A	NA		5.2	Y	Absent		CHLORO-A(1)
L2027843-04B	Brown Plastic 1000ml unpreserved	A	NA		5.2	Y	Absent		CHLORO-A(1)
L2027843-05A	Brown Plastic 1000ml unpreserved	A	NA		5.2	Y	Absent		CHLORO-A(1)
L2027843-05B	Brown Plastic 1000ml unpreserved	A	NA		5.2	Y	Absent		CHLORO-A(1)

Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

GLOSSARY

Acronyms

- DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
- EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
- LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.
- NI - Not Ignitable.
- NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
- SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
- STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
- TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
- TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
- TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

Report Format: Data Usability Report



Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.

Lab Number: L2027843

Project Number: Not Specified

Report Date: 07/07/20

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less

Report Format: Data Usability Report



Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

Data Qualifiers

than 5x the RL. (Metals only.)

- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

Project Name: PLYMOUTH ENVIRONMENTAL MNGMT.
Project Number: Not Specified

Lab Number: L2027843
Report Date: 07/07/20

REFERENCES

- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility

EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene

EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

EPA 8270D: NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.

Mansfield Facility

SM 2540D: TSS

EPA 8082A: NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

EPA TO-12 Non-methane organics

EPA 3C Fixed gases

Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water

EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; EPA 353.2: Nitrate-N, Nitrite-N; SM4500NO₃-F: Nitrate-N, Nitrite-N; SM4500F-C, SM4500CN-CE,

EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO₂-B

EPA 332: Perchlorate; EPA 524.2: THMs and VOCs; EPA 504.1: EDB, DBCP.

Microbiology: SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.

Non-Potable Water

SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH₃-BH: Ammonia-N and Kjeldahl-N, EPA 350.1: Ammonia-N, LACHAT 10-107-06-1-B: Ammonia-N, EPA 351.1, SM4500NO₃-F, EPA 353.2: Nitrate-N, SM4500P-E, SM4500P-B, E, SM4500SO₄-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.

EPA 624.1: Volatile Halocarbons & Aromatics,

EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

EPA 625.1: SVOC (Acid/Base/Neutral Extractables), EPA 600/4-81-045: PCB-Oil.

Microbiology: SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603.

Mansfield Facility:

Drinking Water

EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. EPA 200.8: Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. EPA 245.1 Hg. EPA 522.

Non-Potable Water

EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

EPA 245.1 Hg.

SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

LDM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@townhall.plymouth.ma.us
Project Name: Harbor Sampling -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK IN AUGUST

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/1/20	1050	S-10 HST	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
7/1/20	1100	S-7 HST	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

NOTE: Analysis needed for reporting in lowest detection possible; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

Adam 07/01/20 1146

LDM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@townhall.plymouth.ma.us
Project Name: Harbor Sampling -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK IN AUGUST

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/1/20	0900	S-10 Ebb	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
7/1/20	0920	S-7 Ebb	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

NOTE: Analysis needed for reporting in lowest detection possible; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

[Signature] 07/01/20 1146

LM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@townhall.plymouth.ma.us
Project Name: Harbor Sampling -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK IN AUGUST

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/1/20	1110	S-8A HST	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
			1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

NOTE: Analysis needed for reporting in lowest detection possible; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

R. Kim 07/01/20 1146

WW-201066

30

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Friday, September 11, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Harbor Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201285

Date Received: 07/30/20

Sample Type	Sample Time	Sample Date	Comments			
S-10 HST A	10:35	07/30/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	0.01	0.02	07/30/20	TM	SM 4500-NO3 E
Total Organic Carbon*	mg/L	0.52	0.017	08/17/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.04	0.02	08/18/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.31	0.2	08/28/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.048	0.005	08/14/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.30	0.20	08/28/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	<0.5	0.017	08/17/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.03	NA	09/11/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.26	NA	09/11/20	KB	Calculation
Chlorophyll-a	*		*			*
Ortho Phosphorous (P)	mg/L	0.028	0.005	08/01/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	<0.52	NA	09/11/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.01	NA	09/11/20	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.31	NA	09/11/20	KB	Calculation
E coli	CFU/100mL	<5	<1	07/30/20	RL @ 16:00	EPA 1603

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Friday, September 11, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Harbor Sampling

Comments:

Project Number: S-7

Sampled By: Kim Tower

Lab Order Number: WW-201286

Date Received: 07/30/20

Sample Type	Sample Time	Sample Date	Comments			
S-7 A	10:50	07/30/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	BRL	0.02	07/30/20	TM	SM 4500-NO3 E
Total Organic Carbon*	mg/L	0.54	0.017	08/17/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.06	0.02	08/18/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.40	0.2	08/28/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.051	0.005	08/14/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.36	0.20	08/28/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.54	0.017	08/17/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.06	NA	09/11/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.30	NA	09/11/20	KB	Calculation
Chlorophyll-a	*		*			*
Ortho Phosphorous (P)	mg/L	0.034	0.005	08/01/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	ND	NA	09/11/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.04	NA	09/11/20	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.36	NA	09/11/20	KB	Calculation
E coli	CFU/100mL	80	<1	07/30/20	RL @ 16:00	EPA 1603

BRL=below reportable limits

*see attached

By: 

Ronald J. Saari

Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Friday, September 11, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Harbor Sampling

Comments:

Project Number: S-8A

Sampled By: Kim Tower

Lab Order Number: WW-201287

Date Received: 07/30/20

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	11:00	07/30/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	BRL	0.02	07/30/20	TM	SM 4500-NO3 E
Total Organic Carbon*	mg/L	0.57	0.017	08/17/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.05	0.02	08/18/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.34	0.2	08/28/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.052	0.005	08/14/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.33	0.20	08/28/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.55	0.017	08/17/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.05	NA	09/11/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.28	NA	09/11/20	KB	Calculation
Chlorophyll-a	*		*			*
Ortho Phosphorous (P)	mg/L	0.030	0.005	08/01/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.02	NA	09/11/20	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.01	NA	09/11/20	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.33	NA	09/11/20	KB	Calculation
E coli	CFU/100mL	65	<1	07/30/20	RL @ 16:00	EPA 1603

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2008-13323

Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-201285 S-10 HST
Sample Type : GRAB
Sample Date / Time : 7/30/2020 @ 10:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.04	0.02	mg/l	SM4500NH3-B,H 18-21ed	8/18/2020 11:12	BR
TOC	0.52	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS
DOC	<0.5	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS

Sample Number: 002
Sample Description: WW-201286 S-7 HST
Sample Type : GRAB
Sample Date / Time : 7/30/2020 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.06	0.02	mg/l	SM4500NH3-B,H 18-21ed	8/18/2020 11:12	BR
TOC	0.54	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS
DOC	0.54	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS

Sample Number: 003
Sample Description: WW-201287A S-8A HST
Sample Type : GRAB
Sample Date / Time : 7/30/2020 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.05	0.02	mg/l	SM4500NH3-B,H 18-21ed	8/18/2020 11:12	BR
TOC	0.57	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS
DOC	0.55	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS

Sample Number: 004
Sample Description: WW-201287B TRIP BLANK
Sample Type : GRAB
Sample Date / Time : 7/30/2020 @ 16:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
DOC	<0.5	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS

ENVIROTECH LABS, INC.

Project Name: Plymouth Env.

KT

[illegible]

Page 3 of 3

Ammonia-N low level 0.02 mg/L

Inquired:

Date/Time 8/13/20 1300

Received:

inquished:

Date/Time 08/13/2020 15:10

Received

**TOC dissolved samples are filtered
Contact lab with any exceeded MCL**

2000

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 8/13/2020
Date Reported: 8/20/2020
P.O. Number WW201285-WW201287A

Work Order #: 2008-13323

Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable, indication of sample analysis at our Hudson, MA laboratory and/or subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Nicole Skyleson
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):

Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508 Hudson MA * M-MA1117, RI LAO00319

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

(2)

Client:

Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Harbor Sampling -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK IN SEPTEMBER

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/30/20	1035	S-10 HST	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
7/30/20	1050	S-7 HST	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

NOTE: Analysis needed for reporting in lowest detection possible; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

R. J. J. 07/30/20 1445



Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling -Plymouth MA**
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK IN SEPTEMBER

WW-201287

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/30/20	800	S-8A HST	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
	1100		1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
			1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

65

NOTE: Analysis needed for reporting in lowest detection possible; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

[Signature] 07/30/20 1445

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, October 13, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Harbor Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201554

Date Received: 08/31/20

Sample Type	Sample Time	Sample Date	Comments			
S-10 Ebb A	11:15	08/31/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	<0.01	0.02	09/01/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.43	NA	10/13/20	KB	Calculation
E-coli	CFU/100 mL	5	<1	08/31/20	SD @ 17:45	SM 9213 D
Total Organic Carbon*	mg/L	0.90	0.017	09/21/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	<0.02	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.43	0.2	09/23/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.042	0.005	09/14/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.38	0.20	09/23/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.75	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	10/13/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.38	NA	10/13/20	KB	Calculation
Chlorophyll-a	*	NT**	*	10/09/20	KB	*
Ortho Phosphorous (P)	mg/L	0.027	0.005	09/02/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.15	NA	10/13/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	10/13/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.38	NA	10/13/20	KB	Calculation

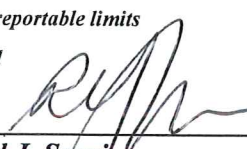
** Lab error, samples submitted by Plymouth Environmental were mistakenly sent out for Cyanobacteria testing instead of Chlorophyll-a.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 

Ronald J. Sqari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, October 13, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Harbor Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201555

Date Received: 08/31/20

Sample Type	Sample Time	Sample Date	Comments			
S-7 Ebb A	11:25	08/31/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	<0.01	0.02	09/01/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.40	NA	10/13/20	KB	Calculation
E-coli	CFU/100 mL	20	<1	08/31/20	SD @ 17:45	SM 9213 D
Total Organic Carbon*	mg/L	0.89	0.017	09/21/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	<0.02	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.40	0.2	09/23/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.040	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.38	0.20	09/23/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.82	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	10/13/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.38	NA	10/13/20	KB	Calculation
Chlorophyll-a	*	NT**	*	10/09/20	KB	*
Ortho Phosphorous (P)	mg/L	0.028	0.005	09/02/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.07	NA	10/13/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.02	NA	10/13/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.38	NA	10/13/20	KB	Calculation

** Lab error, samples submitted by Plymouth Environmental were mistakenly sent out for Cyanobacteria testing instead of Chlorophyll-a.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 

Ronald J. Saari

Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, October 13, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Harbor Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201556

Date Received: 08/31/20

Sample Type	Sample Time	Sample Date	Comments			
S-8A HST A	13:40	08/31/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	<0.01	0.02	09/01/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.43	NA	10/13/20	KB	Calculation
E-coli	CFU/100 mL	15	<1	08/31/20	SD @ 17:45	SM 9213 D
Total Organic Carbon*	mg/L	0.88	0.017	09/21/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.02	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.43	0.2	09/23/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.041	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.38	0.20	09/23/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.80	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	10/13/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.36	NA	10/13/20	KB	Calculation
Chlorophyll-a	*	NT**	*	10/09/20	KB	*
Ortho Phosphorous (P)	mg/L	0.028	0.005	09/02/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.08	NA	10/13/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.05	NA	10/13/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.38	NA	10/13/20	KB	Calculation

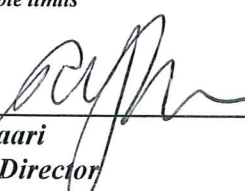
** Lab error, samples submitted by Plymouth Environmental were mistakenly sent out for Cyanobacteria testing instead of Chlorophyll-a.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, October 13, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Harbor Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201557

Date Received: 08/31/20

Sample Type	Sample Time	Sample Date	Comments			
S-10 HST A	13:20	08/31/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	<0.01	0.02	09/01/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.44	NA	10/13/20	KB	Calculation
E-coli	CFU/100 mL	<5	<1	08/31/20	SD @ 17:45	SM 9213 D
Total Organic Carbon*	mg/L	0.87	0.017	09/21/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.04	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.44	0.2	09/23/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.046	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.38	0.20	09/23/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.72	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.05	NA	10/13/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.34	NA	10/13/20	KB	Calculation
Chlorophyll-a	*	NT**	*	10/09/20	KB	*
Ortho Phosphorous (P)	mg/L	0.033	0.005	09/02/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.15	NA	10/13/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.06	NA	10/13/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.38	NA	10/13/20	KB	Calculation

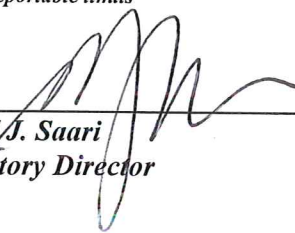
** Lab error, samples submitted by Plymouth Environmental were mistakenly sent out for Cyanobacteria testing instead of Chlorophyll-a.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, October 13, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Harbor Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201558

Date Received: 08/31/20

Sample Type	Sample Time	Sample Date	Comments			
S-7 HST A	13:30	08/31/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	<0.01	0.02	09/01/20	TM	SM 4500-NO3 E
Total Nitrogen	mg/L	0.44	NA	10/13/20	KB	Calculation
E-coli	CFU/100 mL	5	<1	08/31/20	SD @ 17:45	SM 9213 D
Total Organic Carbon*	mg/L	0.96	0.017	09/21/20	RIA*	SM 5310 C
Ammonia-N *	mg/L	0.07	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.44	0.2	09/23/20	KB	SM4500-Norg B-C
Total Phosphorous (P)	mg/L	0.040	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.40	0.20	09/23/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.77	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.08	NA	10/13/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.33	NA	10/13/20	KB	Calculation
Chlorophyll-a	*	NT**	*	10/09/20	KB	*
Ortho Phosphorous (P)	mg/L	0.034	0.005	09/02/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.19	NA	10/13/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.04	NA	10/13/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.40	NA	10/13/20	KB	Calculation

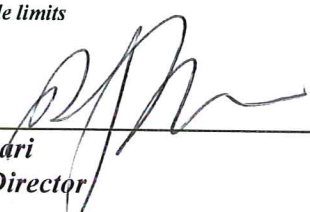
** Lab error, samples submitted by Plymouth Environmental were mistakenly sent out for Cyanobacteria testing instead of Chlorophyll-a.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 

Ronald J. Saadri
Laboratory Director

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 9/17/2020
Date Reported: 9/25/2020
P.O. Number WW201285-WW201287A
1554-1558

Work Order #: 2009-15438

Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable, indication of sample analysis at our Hudson, MA laboratory and/or subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Nicole Skyleson
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):

Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508 Hudson MA * M-MA1117, RI LAO00319

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2009-15438

Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-201554 S-10 EBB TIDE
Sample Type : GRAB
Sample Date / Time : 8/31/2020 @ 11:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR
TOC	0.90	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	0.75	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS

Sample Number: 002
Sample Description: WW-201555 S-7 EBB TIDE
Sample Type : GRAB
Sample Date / Time : 8/31/2020 @ 11:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR
TOC	0.89	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	0.82	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS

Sample Number: 003
Sample Description: WW-201556 S-8A HST
Sample Type : GRAB
Sample Date / Time : 8/31/2020 @ 13:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR
TOC	0.88	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	0.80	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS

Sample Number: 004
Sample Description: WW-201557 S-10 HST
Sample Type : GRAB
Sample Date / Time : 8/31/2020 @ 13:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.04	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR
TOC	0.87	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	0.72	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2009-15438

Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-201558 S-7 HST
Sample Type : GRAB
Sample Date / Time : 8/31/2020 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.07	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR
TOC	0.96	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	0.77	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS

Sample Number: 006
Sample Description: WW-201558B TRIP BLANK
Sample Type : GRAB
Sample Date / Time : 8/30/2020 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
DOC	0.86	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS

WOW

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Harbor Sampling -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK IN OCTOBER

WW 201554

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/31/20	1115	S-10 ebb	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			1	1 Liter Amber Plastic	Chlorophyll-a	NONE
8/31/20	1125	S-7 ebb	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			1	1 Liter Amber Plastic	Chlorophyll-a	NONE

WW 201555

1745
SD

NOTE: Analysis needed for reporting in lowest detection possible; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

K/T 8/31/20 1420

LOM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Harbor Sampling -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK IN OCTOBER

WW 201556

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/31/20	5-5A HST	1340	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			1	1 Liter Amber Plastic	Chlorophyll-a	NONE
			1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			1	1 Liter Amber Plastic	Chlorophyll-a	NONE

1745
SD

NOTE: Analysis needed for reporting in lowest detection possible; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Kim Ta

Received By:

Date/Time:

8/31/20 14²⁰

LM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling -Plymouth MA**
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK IN OCTOBER

WW 201557

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/31/20	1320	S-10 HST	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			1	1 Liter Amber Plastic	Chlorophyll-a	NONE
8/31/20	1330	S-7 HST	1	1 Liter Plastic	Dissolved TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC Low	NONE
			1	1 Liter Plastic	Extra	
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	sterile
			1	1 Liter Amber Plastic	Chlorophyll-a	NONE

RWS
SD

WW 201558

NOTE: Analysis needed for reporting in lowest detection possible; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

[Signature] 08/31/20 1420

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Sunday, January 24, 2021

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200795

Date Received: 06/02/20

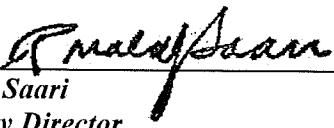
Sample Type	Sample Time	Sample Date	Comments			
S-4A A	11:25	06/02/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	0.06	0.01	06/03/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	06/03/20	LL	EPA 300.0
Total Nitrogen	mg/L	0.26	NA	07/09/20	KB	Calculation
Total Dissolved Solids	mg/L	90	6.0	06/05/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	2.9	0.017	06/15/20	RIA	SM 5310 C
Boron	mg/L	0.012	0.010	06/10/20	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	06/15/20	RIA	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.22	0.2	06/08/20	KB	SM4500-Norg B-C
Chloride	mg/L	41	3.0	06/03/20	LL	EPA 300.0
Total Phosphorous (P)	mg/L	0.052	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	06/08/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.0	0.017	06/15/20	RIA	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.08	NA	12/18/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.20	NA	12/18/20	KB	Calculation
Chlorophyll-a	*	16.6	*	06/04/20	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.008	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.90	NA	12/18/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.22	NA	12/18/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.26	NA	12/18/20	KB	Calculation
E coli	CFU/100mL	20	<1	06/02/20	KF @ 18:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Sunday, January 24, 2021

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-200795
Date Received: 06/02/20

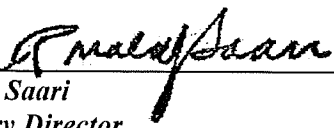
Sample Type		Sample Time	Sample Date	Comments		
S-4A	A	11:25	06/02/20			
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

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*see attached

By: 
Ronald J. Saari
Laboratory Director

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 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Sunday, January 24, 2021

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200794

Date Received: 06/02/20

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	10:50	06/02/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	0.07	0.01	06/03/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	06/03/20	LL	EPA 300.0
Total Nitrogen	mg/L	0.40	NA	07/09/20	KB	Calculation
Total Dissolved Solids	mg/L	100	6.0	06/05/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	2.8	0.017	06/15/20	RIA	SM 5310 C
Boron	mg/L	0.019	0.010	06/10/20	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	06/15/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.33	0.2	06/08/20	KB	SM4500-Norg B-C
Chloride	mg/L	49	3.0	06/03/20	LL	EPA 300.0
Total Phosphorous (P)	mg/L	0.049	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.29	0.20	06/08/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.2	0.017	06/15/20	RIA	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.09	NA	12/18/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.29	NA	12/18/20	KB	Calculation
Chlorophyll-a	*	17.0	*	06/04/20	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.005	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.60	NA	12/18/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.04	NA	12/18/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.36	NA	12/18/20	KB	Calculation
E coli	CFU/100mL	25	<1	06/02/20	KF @ 18:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Sunday, January 24, 2021

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200794

Date Received: 06/02/20

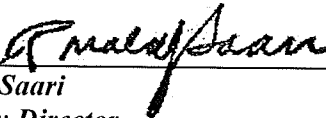
Sample Type		Sample Time	Sample Date	Comments		
S-8A	A	10:50	06/02/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

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*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K. Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-200794
Date Received: 06/02/20

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	10:50	06/02/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	0.07	0.01	06/03/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	06/03/20	LL	EPA 300.0
Total Nitrogen	mg/L	0.40	NA	07/09/20	KB	Calculation
Total Dissolved Solids	mg/L	100	6.0	06/05/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	2.8	0.017	06/15/20	RIA	SM 5310 C
Boron	mg/L	0.019	0.010	06/10/20	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	06/15/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.33	0.2	06/08/20	KB	SM4500-Norg B-C
Chloride	mg/L	49	3.0	06/03/20	LL	EPA 300.0
Total Phosphorous (P)	mg/L	0.490	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.29	0.20	06/08/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.2	0.017	06/15/20	RIA	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.09	NA	12/18/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.29	NA	12/18/20	KB	Calculation
Chlorophyll-a	*	17.0	*	06/04/20	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.005	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.60	NA	12/18/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.04	NA	12/18/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.36	NA	12/18/20	KB	Calculation
E coli	CFU/100mL	25	<1	06/02/20	KF @ 18:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-200794
Date Received: 06/02/20

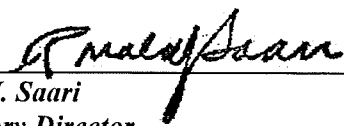
Sample Type		Sample Time	Sample Date	Comments		
S-8A	A	10:50	06/02/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

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*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K.Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-200795
Date Received: 06/02/20

Sample Type		Sample Time	Sample Date	Comments		
S-4A	A	11:25	06/02/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Nitrate-N		mg/L	0.06	0.01	06/03/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	06/03/20	LL EPA 300.0
Total Nitrogen		mg/L	0.26	NA	07/09/20	KB Calculation
Total Dissolved Solids		mg/L	90	6.0	06/05/20	KB SM 2540 C
Total Organic Carbon*		mg/L	2.9	0.017	06/15/20	RIA SM 5310 C
Boron		mg/L	0.012	0.010	06/10/20	KB EPA 200.7
Ammonia-N *		mg/L	BRL	0.02	06/15/20	RIA SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	0.22	0.2	06/08/20	KB SM4500-Norg B-C
Chloride		mg/L	41	3.0	06/03/20	LL EPA 300.0
Total Phosphorous (P)		mg/L	0.522	0.005	06/11/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	BRL	0.20	06/08/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	2.0	0.017	06/15/20	RIA EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	<0.08	NA	12/18/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	<0.20	NA	12/18/20	KB Calculation
Chlorophyll-a		*	16.6	*	06/04/20	Alpha* *
Ortho Phosphorous (P)		mg/L	0.008	0.005	06/04/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	0.90	NA	12/18/20	KB SM 5310 C
Particulate Organic Nitrogen		mg/L	<0.22	NA	12/18/20	KB Calculation
Total Dissolved Nitrogen		mg/L	<0.26	NA	12/18/20	KB Calculation
E coli		CFU/100mL	20	<1	06/02/20	KF @ 18:30 EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-200795
Date Received: 06/02/20

Sample Type		Sample Time	Sample Date	Comments		
S-4A	A	11:25	06/02/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

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*see attached

By: 
Ronald J. Saari
Laboratory Director

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MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K. Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-200796
Date Received: 06/02/20

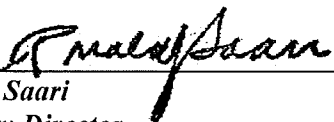
Sample Type	Sample Time	Sample Date	Comments			
S-5B A	11:05	06/02/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	0.07	0.01	06/03/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	06/03/20	LL	EPA 300.0
Total Nitrogen	mg/L	0.45	NA	07/09/20	KB	Calculation
Total Dissolved Solids	mg/L	100	6.0	06/05/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	2.6	0.017	06/15/20	RIA	SM 5310 C
Boron	mg/L	0.018	0.010	06/10/20	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	06/15/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.38	0.2	06/08/20	KB	SM4500-Norg B-C
Chloride	mg/L	50	3.0	06/03/20	LL	EPA 300.0
Total Phosphorous (P)	mg/L	0.043	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	06/08/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.0	0.017	06/15/20	RIA	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.09	NA	12/18/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.20	NA	12/18/20	KB	Calculation
Chlorophyll-a	*	4.98	*	06/04/20	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.005	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.60	NA	12/18/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.38	NA	12/18/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.27	NA	12/18/20	KB	Calculation
E coli	CFU/100mL	50	<1	06/02/20	KF @ 18:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.

MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-200796
Date Received: 06/02/20

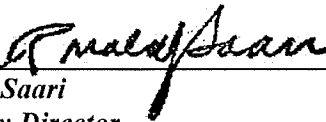
Sample Type		Sample Time	Sample Date	Comments		
S-5B	A	11:05	06/02/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

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Ronald J. Saari
Laboratory Director

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FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200797

Date Received: 06/02/20

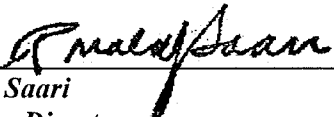
Sample Type		Sample Time	Sample Date	Comments		
S-3A	A	11:40	06/02/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Nitrate-N		mg/L	0.13	0.01	06/03/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	06/03/20	LL EPA 300.0
Total Nitrogen		mg/L	0.39	NA	07/09/20	KB Calculation
Total Dissolved Solids		mg/L	78	6.0	06/05/20	KB SM 2540 C
Total Organic Carbon*		mg/L	1.8	0.017	06/15/20	RIA SM 5310 C
Boron		mg/L	0.014	0.010	06/10/20	KB EPA 200.7
Ammonia-N *		mg/L	BRL	0.02	06/15/20	RIA SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	0.26	0.2	06/08/20	KB SM4500-Norg B-C
Chloride		mg/L	34	3.0	06/03/20	LL EPA 300.0
Total Phosphorous (P)		mg/L	0.022	0.005	06/11/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	BRL	0.20	06/08/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	1.3	0.017	06/15/20	RIA EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	<0.15	NA	12/18/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	<0.20	NA	12/18/20	KB Calculation
Chlorophyll-a		*	8.91	*	06/04/20	Alpha* *
Ortho Phosphorous (P)		mg/L	BRL	0.005	06/04/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	0.50	NA	12/18/20	KB SM 5310 C
Particulate Organic Nitrogen		mg/L	<0.26	NA	12/18/20	KB Calculation
Total Dissolved Nitrogen		mg/L	<0.33	NA	12/18/20	KB Calculation
E coli		CFU/100mL	10	<1	06/02/20	KF @ 18:30 EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
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(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-200797
Date Received: 06/02/20

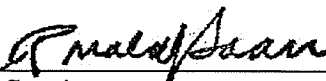
Sample Type		Sample Time	Sample Date	Comments		
S-3A	A	11:40	06/02/20			
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

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FAX (508)888-6446

Wednesday, December 23, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200802

Date Received: 06/02/20

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	12:00	06/02/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	BRL	0.01	06/03/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	06/03/20	LL	EPA 300.0
Total Nitrogen	mg/L	0.48	NA	07/09/20	KB	Calculation
Total Dissolved Solids	mg/L	68	6.0	06/05/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	2.0	0.017	06/15/20	RIA	SM 5310 C
Boron	mg/L	0.012	0.010	06/10/20	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	06/15/20	RIA	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.48	0.2	06/09/20	KB	SM4500-Norg B-C
Chloride	mg/L	31	3.0	06/03/20	LL	EPA 300.0
Total Phosphorous (P)	mg/L	0.022	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.24	0.20	06/09/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.6	0.017	06/15/20	RIA	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	12/18/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	ND	NA	12/18/20	KB	Calculation
Chlorophyll-a	*	14.0	*	06/04/20	Alpha*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.40	NA	12/18/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.24	NA	12/18/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.25	NA	12/18/20	KB	Calculation
E coli	CFU/100mL	5	<1	06/02/20	KF @ 18:30	EPA 1603

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

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FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200803

Date Received: 06/02/20

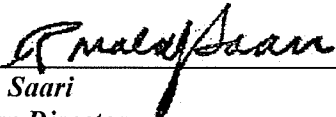
Sample Type	Sample Time	Sample Date	Comments			
S-8B A	12:15	06/02/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	0.20	0.01	06/03/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	06/03/20	LL	EPA 300.0
Total Nitrogen	mg/L	0.44	NA	07/09/20	KB	Calculation
Total Dissolved Solids	mg/L	59	6.0	06/05/20	KB	SM 2540 C
Total Organic Carbon*	mg/L	2.6	0.017	06/15/20	RIA	SM 5310 C
Boron	mg/L	0.013	0.010	06/10/20	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	06/15/20	RIA	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.24	0.2	06/09/20	KB	SM4500-Norg B-C
Chloride	mg/L	22	3.0	06/03/20	LL	EPA 300.0
Total Phosphorous (P)	mg/L	0.025	0.005	06/11/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	06/09/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.8	0.017	06/15/20	RIA	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.22	NA	12/18/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.20	NA	12/18/20	KB	Calculation
Chlorophyll-a	*	3.54	*	06/04/20	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.012	0.005	06/04/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.80	NA	12/18/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.24	NA	12/18/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.40	NA	12/18/20	KB	Calculation
E coli	CFU/100mL	15	<1	06/02/20	KF @ 18:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

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(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth **Comments:**
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-200803
Date Received: 06/02/20

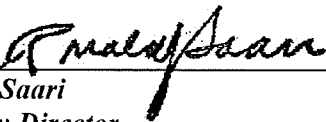
Sample Type		Sample Time	Sample Date	Comments		
S-8B	A	12:15	06/02/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

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*see attached

By: 
Ronald J. Saari
Laboratory Director

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MA CERT. NO.: M-MA 063

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 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K.Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: Eel River SW Sampling, Plymouth

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-200804

Date Received: 06/02/20

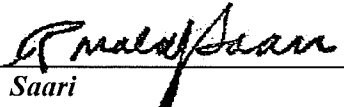
Sample Type		Sample Time	Sample Date	Comments		
S-6A	A	12:25	06/02/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Nitrate-N		mg/L	0.20	0.01	06/03/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	06/03/20	LL EPA 300.0
Total Nitrogen		mg/L	0.50	NA	07/09/20	KB Calculation
Total Dissolved Solids		mg/L	60	6.0	06/05/20	KB SM 2540 C
Total Organic Carbon*		mg/L	2.5	0.017	06/15/20	RIA SM 5310 C
Boron		mg/L	0.014	0.010	06/10/20	KB EPA 200.7
Ammonia-N *		mg/L	BRL	0.02	06/15/20	RIA SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	0.30	0.2	06/09/20	KB SM4500-Norg B-C
Chloride		mg/L	22	3.0	06/03/20	LL EPA 300.0
Total Phosphorous (P)		mg/L	0.028	0.005	06/11/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	BRL	0.20	06/09/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	1.8	0.017	06/15/20	RIA EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	<0.22	NA	12/18/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	<0.20	NA	12/18/20	KB Calculation
Chlorophyll-a		*	3.65	*	06/04/20	Alpha* *
Ortho Phosphorous (P)		mg/L	0.014	0.005	06/04/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	0.70	NA	12/18/20	KB SM 5310 C
Particulate Organic Nitrogen		mg/L	<0.30	NA	12/18/20	KB Calculation
Total Dissolved Nitrogen		mg/L	<0.40	NA	12/18/20	KB Calculation
E coli		CFU/100mL	15	<1	06/02/20	KF @ 18:30 EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

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(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Eel River SW Sampling, Plymouth* **Comments:**
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-200804*
Date Received: *06/02/20*

Sample Type		Sample Time	Sample Date	Comments		
S-6A	A	12:25	06/02/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst
						Method

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

**see attached*

By: *Ronald J. Saari*
Ronald J. Saari
Laboratory Director

WPM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@townhall.plymouth.ma.us
Project Name: **Eel River SW Sampling -Plymouth MA**
Sampler: Kim Tower (KT)

~~WW-200794A-B~~ W

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
6/2/20	1050	S-8A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN, TP, TOC	NONE
			2	1 Liter Amber	Chlorophyll-a	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria 25	NONE
6/2/20	1105	S-5B	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN, TP, TOC	NONE
			2	1 Liter Amber	Chlorophyll-a	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria 50	NONE

WW-200794A

796

WW-200795A

Relinquished By: Date/Time

Kim Tower

Received By:

Date/Time: 06/02/20

[Signature]

1300

06/02/20 1830 KF

PO# 20001960-000

LQM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@townhall.plymouth.ma.us
Project Name: **Eel River SW Sampling -Plymouth MA**
Sampler: Kim Tower (KT)

795
WW-200795
#

WW-200795 ✓

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
6/2/20	1125	S-4A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN, TP, TOC	NONE
			2	1 Liter Amber	Chlorophyll-a	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria 20	NONE
6/2/20	1140	S-3A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN, TP, TOC	NONE
			2	1 Liter Amber	Chlorophyll-a	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria 10	NONE

WW-200797
#

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

[Signature] 6/2/20 1300

WM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 / 508-747-1620 x10198, ktower@townhall.plymouth.ma.us
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

WN-2007962w

WN-200802
#

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
6/2/20	1200	S-2C	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			2	1 Liter Amber	Chlorophyll-a	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria S	NONE
6/2/20	1215	S-8A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			2	1 Liter Amber	Chlorophyll-a	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria 15	NONE

WN-200803
B

Relinquished By: Date/Time

Kim Tu

Received By: Date/Time:

[Signature] 6/2/20
1300

COM

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@townhall.plymouth.ma.us
Project Name: **Eel River SW Sampling -Plymouth MA**
Sampler: Kim Tower (KT)

~~NW-200797~~ *h*

NW-200804

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
6/2/20	1225	S-6A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN, TP, TOC	NONE
			2	1 Liter Amber	Chlorophyll-a	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria <i>15</i>	NONE
			1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN, TP, TOC	NONE
			2	1 Liter Amber	Chlorophyll-a	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

KA *6/2/20 1300*

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

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Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW
Project Number: S-8A
Sampled By: K Tower
Lab Order Number: WW-200988
Date Received: 06/24/20

Comments:

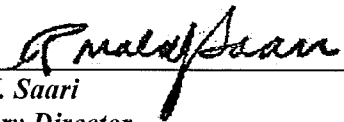
Sample Type	Sample Time	Sample Date	Comments			
S-8A A	10:35	06/24/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.40	NA	07/16/20	KB	Calculation
Chloride grab	mg/L	50	3.0	06/25/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	3.1	0.017	07/01/20	RIA*	SM 5310 C
Boron	mg/L	0.016	0.010	06/26/20	KB	EPA 200.7
Nitrate-N	mg/L	0.02	0.01	06/25/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	06/25/20	LL	EPA 300.0
Ammonia-N *	mg/L	0.04	0.02	07/06/20	RIA	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.38	0.2	07/11/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	110	6.0	07/01/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.014	0.005	07/16/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.22	0.20	07/11/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.4	0.017	07/01/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.06	NA	12/17/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.18	NA	12/17/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.009	0.005	06/26/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.70	NA	12/17/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.16	NA	12/17/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.24	NA	12/17/20	KB	Calculation
E coli	CFU/100mL	5	<1	06/24/20	RL	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K.Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: Eel River SW
Project Number: S-5B
Sampled By: K Tower
Lab Order Number: WW-200989
Date Received: 06/24/20

Comments:

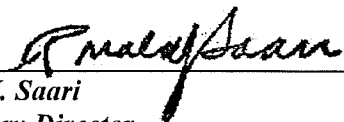
Sample Type		Sample Time	Sample Date	Comments		
S-5B	A	10:50	06/24/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Total Nitrogen		mg/L	0.47	NA	07/16/20	KB Calculation
Chloride grab		mg/L	51	3.0	06/25/20	LL EPA 300.0
Total Organic Carbon*		mg/L	3.3	0.017	07/01/20	RIA* SM 5310 C
Boron		mg/L	0.016	0.010	07/01/20	KB EPA 200.7
Nitrate-N		mg/L	0.02	0.01	06/25/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	06/25/20	LL EPA 300.0
Ammonia-N *		mg/L	0.05	0.02	07/06/20	RIA SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	0.45	0.2	07/11/20	KB SM4500-Norg B-C
TDS-grab		mg/L	110	6.0	07/01/20	KB SM 2540 C
Total Phosphorous (P)		mg/L	0.016	0.005	07/16/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	0.25	0.20	07/11/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	2.6	0.017	07/01/20	RIA* EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	0.07	NA	12/17/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	0.20	NA	12/17/20	KB Calculation
Ortho Phosphorous (P)		mg/L	0.011	0.005	06/26/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	0.70	NA	12/17/20	KB SM 5310 C
Particulate Organic Nitrogen		mg/L	0.20	NA	12/17/20	KB Calculation
Total Dissolved Nitrogen		mg/L	0.27	NA	12/17/20	KB Calculation
E coli		CFU/100mL	5	<1	06/24/20	RL EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW
Project Number: S-4A
Sampled By: K Tower
Lab Order Number: WW-200990
Date Received: 06/24/20

Comments:

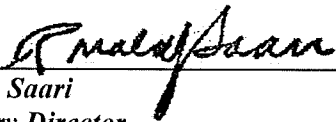
Sample Type	Sample Time	Sample Date	Comments			
S-4A A	11:10	06/24/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Kjeldhal Nitrogen	mg/L	0.39	0.60	07/11/20	KB	SM4500-Norg B-C
Total Nitrogen	mg/L	0.46	NA	12/15/20	KB	Calculation
Chloride grab	mg/L	40	3.0	06/25/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	2.9	0.017	07/01/20	ro	SM 5310 C
Boron	mg/L	0.011	0.010	07/01/20	KB	EPA 200.7
Nitrate-N	mg/L	0.07	0.01	06/25/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	06/25/20	LL	EPA 300.0
Ammonia-N *	mg/L	0.07	0.02	07/06/20	RIA	SM4500 NH3 C
TDS-grab	mg/L	89	6.0	07/01/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.020	0.005	07/16/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.27	0.20	07/11/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.0	0.017	07/01/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.14	NA	12/17/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.20	NA	12/17/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.014	0.005	06/26/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.90	NA	12/17/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.12	NA	12/17/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.34	NA	12/17/20	KB	Calculation
E coli	CFU/100mL	205	<1	06/24/20	RL	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW
Project Number: S-3A
Sampled By: K Tower
Lab Order Number: WW-200991
Date Received: 06/24/20

Comments:

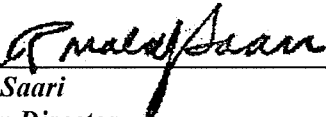
Sample Type	Sample Time	Sample Date	Comments			
S-3A A	11:20	06/24/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Kjeldhal Nitrogen	mg/L	0.21	0.60	07/11/20	KB	SM4500-Norg B-C
Total Nitrogen	mg/L	0.34	NA	12/15/20	KB	Calculation
Chloride grab	mg/L	34	3.0	06/25/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	1.6	0.017	07/02/20	RIA*	SM 5310 C
Boron	mg/L	0.013	0.010	07/02/20	KB	EPA 200.7
Nitrate-N	mg/L	0.13	0.01	06/25/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	06/25/20	LL	EPA 300.0
Ammonia-N *	mg/L	0.04	0.02	07/06/20	RIA	SM4500 NH3 C
TDS-grab	mg/L	84	6.0	07/01/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.015	0.005	07/16/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	07/11/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.3	0.017	07/02/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.17	NA	12/17/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.16	NA	12/17/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.006	0.005	06/26/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.30	NA	12/17/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.21	NA	12/17/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.33	NA	12/17/20	KB	Calculation
E coli	CFU/100mL	25	<1	06/24/20	RL	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K. Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: Eel River SW
Project Number: S-2L
Sampled By: K Tower
Lab Order Number: WW-200992
Date Received: 06/24/20

Comments:

Sample Type	Sample Time	Sample Date	Comments			
D-2L A	11:35	06/24/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Kjeldhal Nitrogen	mg/L	0.34	0.60	07/11/20	KB	SM4500-Norg B-C
Total Nitrogen	mg/L	0.36	NA	12/15/20	KB	Calculation
Chloride grab	mg/L	31	3.0	06/25/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	1.6	0.017	07/02/20	RIA*	SM 5310 C
Boron	mg/L	0.012	0.010	07/02/20	KB	EPA 200.7
Nitrate-N	mg/L	0.02	0.01	06/25/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	06/25/20	LL	EPA 300.0
Ammonia-N *	mg/L	0.05	0.02	07/06/20	RIA	SM4500 NH3 C
TDS-grab	mg/L	76	6.0	07/01/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.007	0.005	07/16/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	07/11/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.3	0.017	07/02/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.07	NA	12/17/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.23	NA	12/17/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	06/26/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.30	NA	12/17/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.06	NA	12/17/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.30	NA	12/17/20	KB	Calculation
E coli	CFU/100mL	10	<1	06/24/20	RL	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: Ronald J. Saari
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW
Project Number: S-6A
Sampled By: K Tower
Lab Order Number: WW-200993
Date Received: 06/24/20

Comments:

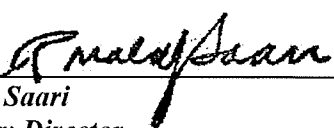
Sample Type		Sample Time	Sample Date	Comments		
S-6A	A	11:50	06/24/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Kjeldhal Nitrogen		mg/L	0.31	0.60	07/11/20	KB SM4500-Norg B-C
Total Nitrogen		mg/L	0.47	NA	12/15/20	KB Calculation
Chloride grab		mg/L	22	3.0	06/25/20	LL EPA 300.0
Total Organic Carbon*		mg/L	2.7	0.017	07/02/20	RIA* SM 5310 C
Boron		mg/L	0.015	0.010	07/02/20	KB EPA 200.7
Nitrate-N		mg/L	0.16	0.01	06/25/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	06/25/20	LL EPA 300.0
Ammonia-N *		mg/L	0.04	0.02	07/06/20	RIA SM4500 NH3 C
TDS-grab		mg/L	65	6.0	07/01/20	KB SM 2540 C
Total Phosphorous (P)		mg/L	0.015	0.005	07/16/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	0.20	0.20	07/11/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	1.9	0.017	07/02/20	RIA* EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	0.20	NA	12/17/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	0.16	NA	12/17/20	KB Calculation
Ortho Phosphorous (P)		mg/L	0.009	0.005	06/26/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	0.80	NA	12/17/20	KB SM 5310 C
Particulate Organic Nitrogen		mg/L	0.11	NA	12/17/20	KB Calculation
Total Dissolved Nitrogen		mg/L	0.37	NA	12/17/20	KB Calculation
E coli		CFU/100mL	80	<1	06/24/20	RL EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director



Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@townhall.plymouth.ma.us
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

W-200988

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
6/24/20	1035	S-8A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	H2SO4
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria e-coli	NONE
6/24/20	1050	S-5B	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	H2SO4
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE

W-200989

Relinquished By: Date/Time

KTa

Received By: Date/Time:

Eden 06/24/20 1245

2

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@townhall.plymouth.ma.us
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
6/24/20	1110	S-4A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
1	1	1	1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	H2SO4
1	1	1	1	Glass	Orthophosphate	NONE
1	1	1	1	500mL Plastic	NO3, NO2, Chloride	NONE
1	1	1	1	250mL	Boron	NONE
1	1	1	1	100mL Plastic	Bacteria	NONE
6/24/20	1120	S-3A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
1	1	1	1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	H2SO4
1	1	1	1	Glass	Orthophosphate	NONE
1	1	1	1	500mL Plastic	NO3, NO2, Chloride	NONE
1	1	1	1	250mL	Boron	NONE
1	1	1	1	100mL Plastic	Bacteria	NONE

Relinquished By: Date/Time

KT

Received By: Date/Time:

Reven 06/24/20 1245

2

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@townhall.plymouth.ma.us
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
6/24/20	1135	S-2C	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	H2SO4
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE
6/24/20	1150	S-6A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	H2SO4
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE

Relinquished By: Date/Time

Kim Tu

Received By: Date/Time:

Kim 06/24/20 1245

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 6/30/2020
Date Reported: 7/6/2020
P.O. Number WW-200988-993

Work Order #: 2006-10385

Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable, indication of sample analysis at our Hudson, MA laboratory and/or subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Nicole Skyleson
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):

Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508 Hudson MA * M-MA1117, RI LAO00319

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2006-10385

Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-200988 S-8A
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 10:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.04	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	3.1	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR
DOC	2.4	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR

Sample Number: 002
Sample Description: WW-200989 S-5B
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.05	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	3.3	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR
DOC	2.6	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR

Sample Number: 003
Sample Description: WW-200990 S-4A
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.07	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	2.9	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR
DOC	2.0	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR

Sample Number: 004
Sample Description: WW-200991 S-3A
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 11:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.04	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	1.6	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR
DOC	1.3	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR

R.I. Analytical Laboratories, Inc.**Laboratory Report**

Envirotech Laboratories, Inc.

Work Order #: 2006-10385

Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-200992 S-2C
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 11:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.05	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	1.6	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR
DOC	1.3	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR

Sample Number: 006
Sample Description: WW-200993 S-6A
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 11:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.04	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	2.7	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR
DOC	1.9	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 6/30/2020
Date Reported: 7/6/2020
P.O. Number WW-200988-993

Work Order #: 2006-10385

Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable, indication of sample analysis at our Hudson, MA laboratory and/or subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Nicole Skyleson
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):

Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508 Hudson MA * M-MA1117, RI LAO00319

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2006-10385

Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-200988 S-8A
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 10:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.04	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	3.1	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR
DOC	2.4	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR

Sample Number: 002
Sample Description: WW-200989 S-5B
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.05	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	3.3	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR
DOC	2.6	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR

Sample Number: 003
Sample Description: WW-200990 S-4A
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.07	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	2.9	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR
DOC	2.0	0.5	mg/l	SM5310C 21 ed.	7/1/2020 15:39	BR

Sample Number: 004
Sample Description: WW-200991 S-3A
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 11:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.04	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	1.6	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR
DOC	1.3	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR

R.I. Analytical Laboratories, Inc.**Laboratory Report**

Envirotech Laboratories, Inc.

Work Order #: 2006-10385

Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-200992 S-2C
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 11:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.05	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	1.6	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR
DOC	1.3	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR

Sample Number: 006
Sample Description: WW-200993 S-6A
Sample Type : GRAB
Sample Date / Time : 6/24/2020 @ 11:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.04	0.02	mg/l	SM4500NH3-B,H 18-21ed	7/6/2020 10:28	AEH
TOC	2.7	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR
DOC	1.9	0.5	mg/l	SM5310C 21 ed.	7/2/2020 16:01	BR

CHAIN OF CUSTODY FORM

PWS:

Project Name: Plymouth Env.

Sampler:

KT

ENVIROTECH LABS, INC.

8 Jan Sebastian Dr., Unit 12

Sandwich, MA 02563

(508)888-6460

1-800-339-6460

FAX (508)888-6446

RI Analytical

M RI 015

Address 41 Illinois Avenue

Warwick, RI 02888

Phone# 401-737-8500

Fax# 401-738-1970

Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested
WW-200988	06/24/20	1035		X	S-8A	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Total TOC low
WW-200989	06/24/20	1050		X	S-5B	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Total TOC low
WW-200990	06/24/20	1110		X	S-4A	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Total TOC low
WW-200991	06/24/20	1120		X	S-3A	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Total TOC low
WW-200992	06/24/20	1135		X	S-2C	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Total TOC low
WW-200993	06/24/20	1150		X	S-6A	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)
						plastic	H ₂ SO ₄	Surface water	Total TOC low
						plastic	H ₂ SO ₄	Surface water	Total TOC low

Page 4 of 4

Relinquished:

Received:

Date/Time 6/30/20 1245

Date/Time 6/30/2020 1555

Relinquished:

Received:

Date/Time 6/30/2020 1555

Date/Time 6/30/2020 1555

48°C Contact lab with any exceeded MCL

Page 1 of 1

2020-10385

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW sampling
Project Number: S-8A
Sampled By: Kim Tower
Lab Order Number: WW-201336
Date Received: 08/05/20

Comments:

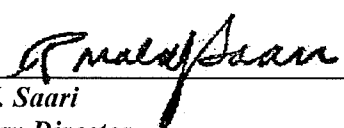
Sample Type	Sample Time	Sample Date	Comments			
S-8A A	10:50	08/05/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	<0.46	NA	09/12/20	KB	Calculation
Chloride grab	mg/L	48	3.0	08/06/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	2.3	0.017	08/17/20	RIA*	SM 5310 C
Boron	mg/L	0.016	0.010	08/13/20	KB	EPA 200.7
Nitrate-N	mg/L	BRL	0.01	08/06/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/06/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	08/18/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.45	0.2	08/28/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	115	6.0	08/10/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.069	0.005	08/22/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.23	0.20	08/28/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.8	0.017	08/17/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	12/20/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.23	NA	12/20/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.009	0.005	08/07/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.50	NA	12/20/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.22	NA	12/20/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.24	NA	12/20/20	KB	Calculation
E coli	CFU/100mL	40	<1	08/05/20	KF @ 1430	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K. Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: Eel River SW sampling
Project Number: S-5B
Sampled By: Kim Tower
Lab Order Number: WW-201337
Date Received: 08/05/20

Comments:

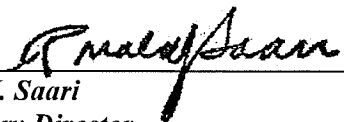
Sample Type	Sample Time	Sample Date	Comments			
S-5B A	11:00	08/05/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	<0.44	NA	08/28/20	KB	Calculation
Chloride grab	mg/L	48	3.0	08/06/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	2.3	0.017	08/17/20	RIA*	SM 5310 C
Boron	mg/L	0.016	0.010	08/13/20	KB	EPA 200.7
Nitrate-N	mg/L	BRL	0.01	08/06/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/06/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	08/18/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.43	0.2	08/28/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	112	6.0	08/10/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.069	0.005	08/22/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	08/28/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.8	0.017	08/17/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	12/20/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.20	NA	12/20/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.008	0.005	08/07/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.50	NA	12/20/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.43	NA	12/20/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.21	NA	12/20/20	KB	Calculation
E coli	CFU/100mL	20	<1	08/05/20	KF @ 1430	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW sampling
Project Number: S-4A
Sampled By: Kim Tower
Lab Order Number: WW-201338
Date Received: 08/05/20

Comments:

Sample Type		Sample Time	Sample Date	Comments		
S-4A	A	11:25	08/15/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Total Nitrogen		mg/L	<0.32	NA	09/12/20	KB Calculation
Chloride grab		mg/L	37	3.0	08/06/20	LL EPA 300.0
Total Organic Carbon*		mg/L	2.9	0.017	08/17/20	RIA* SM 5310 C
Boron		mg/L	0.010	0.010	08/13/20	KB EPA 200.7
Nitrate-N		mg/L	BRL	0.01	08/06/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	08/06/20	LL EPA 300.0
Ammonia-N *		mg/L	BRL	0.02	08/18/20	RIA* SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	0.31	0.2	08/28/20	KB SM4500-Norg B-C
TDS-grab		mg/L	89	6.0	08/10/20	KB SM 2540 C
Total Phosphorous (P)		mg/L	0.062	0.005	08/22/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	0.21	0.20	08/28/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	2.2	0.017	08/17/20	RIA* EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	<0.03	NA	12/20/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	<0.21	NA	12/20/20	KB Calculation
Ortho Phosphorous (P)		mg/L	0.008	0.005	08/07/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	0.70	NA	12/20/20	KB SM 5310 C
Particulate Organic Nitrogen		mg/L	0.10	NA	12/20/20	KB Calculation
Total Dissolved Nitrogen		mg/L	<0.22	NA	12/20/20	KB Calculation
E coli		CFU/100mL	295	<1	08/05/20	KF @ 1430 EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW sampling
Project Number: S-2C
Sampled By: Kim Tower
Lab Order Number: WW-201339
Date Received: 08/05/20

Comments:

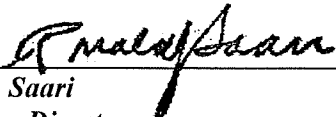
Sample Type	Sample Time	Sample Date	Comments			
S-2C A	11:25	08/05/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.30	NA	09/12/20	KB	Calculation
Chloride grab	mg/L	30	3.0	08/06/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	1.5	0.017	08/17/20	RIA*	SM 5310 C
Boron	mg/L	0.011	0.010	08/13/20	KB	EPA 200.7
Nitrate-N	mg/L	0.03	0.01	08/06/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/06/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	08/18/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.27	0.2	08/28/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	77	6.0	08/10/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.030	0.005	08/22/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	08/28/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.1	0.017	08/17/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.05	NA	12/20/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.20	NA	12/20/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.005	0.005	08/07/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.40	NA	12/20/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.27	NA	12/20/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.23	NA	12/20/20	KB	Calculation
E coli	CFU/100mL	<5	<1	08/05/20	KF @ 1430	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
 FAX (508)888-6446

Tuesday, December 22, 2020

Plymouth Environmental Management
 K.Towers/ 11 Lincoln St.
 Plymouth, MA

ProjectName: Eel River SW sampling
Project Number: S-6A
Sampled By: Kim Tower
Lab Order Number: WW-201340
Date Received: 08/05/20

Comments:

Sample Type		Sample Time	Sample Date	Comments		
S-6A	A	11:45	08/05/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Total Nitrogen		mg/L	<0.38	NA	10/04/20	KB Calculation
Chloride grab		mg/L	21	3.0	08/06/20	LL EPA 300.0
Total Organic Carbon*		mg/L	1.6	0.017	08/17/20	RIA* SM 5310 C
Boron		mg/L	0.012	0.010	08/13/20	KB EPA 200.7
Nitrate-N		mg/L	0.18	0.01	08/06/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	08/06/20	LL EPA 300.0
Ammonia-N *		mg/L	BRL	0.02	08/18/20	RIA* SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	BRL	0.2	10/01/20	KB SM4500-Norg B-C
TDS-grab		mg/L	64	6.0	08/10/20	KB SM 2540 C
Total Phosphorous (P)		mg/L	0.036	0.005	08/22/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	BRL	0.20	10/01/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	1.6	0.017	08/17/20	RIA* EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	<0.20	NA	12/20/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	<0.20	NA	12/20/20	KB Calculation
Ortho Phosphorous (P)		mg/L	0.010	0.005	08/07/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	BRL	NA	12/20/20	KB SM 5310 C
Particulate Organic Nitrogen		mg/L	<0.20	NA	12/20/20	KB Calculation
Total Dissolved Nitrogen		mg/L	0.38	NA	12/20/20	KB Calculation
E coli		CFU/100mL	50	<1	08/05/20	KF @ 1430 EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

[Handwritten signature]

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

WN-201332

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/5/20	1050	S-8A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN, TP, TOC	H2SO4
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE
8/5/20	1100	S-5B	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN, TP, TOC	H2SO4
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE

40 1430
KF

WN-201337

20

Relinquished By: Date/Time

Kim Tu

Received By: Date/Time:

[Signature] 08/09/20 1230

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/5/20	1110	S-4A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	H2SO4
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE
8/5/20	1125	S-2C	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	H2SO4
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

KT

08/05/20 12³⁰

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

(Handwritten signature)

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

WW-201340

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/5/20	1145	S-6A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	H2SO4
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE 50
			1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	H2SO4
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE

Relinquished By: Date/Time

Kim Tower

Received By:

Date/Time:

KT

08/05/20 1230

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 8/13/2020
Date Reported: 8/20/2020
P.O. Number WW201336-WW201340

Work Order #: 2008-13322

Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable, indication of sample analysis at our Hudson, MA laboratory and/or subcontracted results are noted and subcontracted reports are enclosed in their entirety.

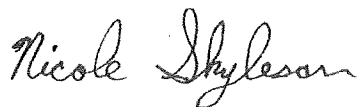
All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Nicole Skyleson
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):

Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508 Hudson MA * M-MA1117, RI LAO00319

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2008-13322

Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-201336 S-8A
Sample Type : GRAB
Sample Date / Time : 8/05/2020 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	8/18/2020 11:12	BR
TOC	2.3	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS
DOC	1.8	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS

Sample Number: 002
Sample Description: WW-201337 S-5B
Sample Type : GRAB
Sample Date / Time : 8/05/2020 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	8/18/2020 11:12	BR
TOC	2.3	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS
DOC	1.8	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS

Sample Number: 003
Sample Description: WW-201338 S-4A
Sample Type : GRAB
Sample Date / Time : 8/05/2020 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	8/18/2020 11:12	BR
TOC	2.9	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS
DOC	2.2	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS

Sample Number: 004
Sample Description: WW-201339 S-2C
Sample Type : GRAB
Sample Date / Time : 8/05/2020 @ 11:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	8/18/2020 11:12	BR
TOC	1.5	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS
DOC	1.1	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2008-13322

Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-201340A S-6A
Sample Type : GRAB
Sample Date / Time : 8/05/2020 @ 11:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	8/18/2020 11:12	BR
TOC	1.6	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS
DOC	1.1	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS

Sample Number: 006
Sample Description: WW-201340B TRIP BLANK
Sample Type : GRAB
Sample Date / Time : 8/05/2020 @ 17:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
DOC	<0.5	0.5	mg/l	SM5310C 21 ed.	8/17/2020 12:30	SAS

CHAIN OF CUSTODY FORM

PWS:

Project Name: Plymouth Env.

Sampler:

KT

ENVIROTECH LABS, INC.

8 Jan Sebastian Dr., Unit 12

Sandwich, MA 02563

(508)888-6460

1-800-339-6460

FAX (508)888-6446

RI Analytical

M RI 015

Address 41 Illinois Avenue

Warwick, RI 02888

Phone# 401-737-8500

Fax# 401-738-1970

Analysis requested

Ammonia-N (0.02 mdl)

Total TOC low

Dissolved TOC low

Ammonia-N (0.02 mdl)

Total TOC low

Dissolved TOC low

Ammonia-N (0.02 mdl)

Total TOC low

Dissolved TOC low

Ammonia-N (0.02 mdl)

Total TOC low

Dissolved TOC low

Ammonia-N (0.02 mdl)

Total TOC low

Dissolved TOC low

Ammonia-N (0.02 mdl)

Total TOC low

Dissolved TOC low

Ammonia-N (0.02 mdl)

Total TOC low

Dissolved TOC low

Dissolved TOC low

Page 4 of 4

Relinquished:

Date/Time

8/13/2020 1100

Received:

MEL

Relinquished:

Date/Time

8/13/2020 1510

Received:

COAC

Contact lab with any exceeded MCL

Page 1 of 1

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, December 18, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201633

Date Received: 09/09/20

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	10:20	09/09/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.45	NA	09/30/20	KB	Calculation
Chloride grab	mg/L	45	3.0	09/10/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	2.0	0.017	09/21/20	RIA*	SM 5310 C
Boron	mg/L	0.065	0.010	09/22/20	KB	EPA 200.7
Nitrate-N	mg/L	0.06	0.01	09/10/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/10/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.39	0.2	09/23/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	104	6.0	09/13/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.045	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	09/23/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.6	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.08	NA	12/15/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.19	NA	12/15/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.008	0.005	09/09/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.40	NA	12/15/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.18	NA	12/15/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.27	NA	12/15/20	KB	Calculation
E coli	CFU/100mL	45	<1	09/09/20	RL @ 17:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.**MA CERT. NO.: M-MA 063**

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Thursday, December 17, 2020

Plymouth Environmental Management

K. Towers/ 11 Lincoln St.

Plymouth, MA

ProjectName: Eel River SW Sampling**Comments:****Project Number:****Sampled By:** Kim Tower**Lab Order Number:** WW-201634**Date Received:** 09/09/20

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	10:30	09/09/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.42	NA	09/30/20	KB	Calculation
Chloride grab	mg/L	44	3.0	09/10/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	1.9	0.017	09/21/20	RIA*	SM 5310 C
Boron	mg/L	0.073	0.010	09/22/20	KB	EPA 200.7
Nitrate-N	mg/L	0.07	0.01	09/10/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/10/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.35	0.2	09/23/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	100	6.0	09/13/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.049	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.32	0.20	09/23/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.6	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.09	NA	12/15/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.30	NA	12/15/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.011	0.005	09/09/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.30	NA	12/15/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.03	NA	12/15/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.39	NA	12/15/20	KB	Calculation
E coli	CFU/100mL	35	<1	09/09/20	RL @ 17:30	EPA 1603

BRL=below reportable limits

*see attached

By:

Ronald J. Saari

Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Thursday, December 17, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201635

Date Received: 09/09/20

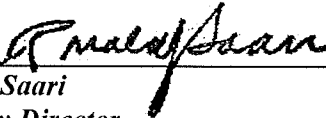
Sample Type	Sample Time	Sample Date	Comments			
S-4A A	10:40	09/09/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.38	NA	10/04/20	KB	Calculation
Chloride grab	mg/L	38	3.0	09/10/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	2.0	0.017	09/21/20	RIA*	SM 5310 C
Boron	mg/L	0.074	0.010	09/22/20	KB	EPA 200.7
Nitrate-N	mg/L	0.07	0.01	09/10/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/10/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.31	0.2	10/01/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	85	6.0	09/13/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.043	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.24	0.20	10/01/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.7	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.09	NA	12/15/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.22	NA	12/15/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.014	0.005	09/09/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.30	NA	12/15/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	12/15/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.31	NA	12/15/20	KB	Calculation
E coli	CFU/100mL	90	<1	09/09/20	RL @ 17:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Thursday, December 17, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201636

Date Received: 09/09/20

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	10:55	09/09/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.46	NA	10/04/20	KB	Calculation
Chloride grab	mg/L	34	3.0	09/10/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	1.5	0.017	09/21/20	RIA*	SM 5310 C
Boron	mg/L	0.071	0.010	09/22/20	KB	EPA 200.7
Nitrate-N	mg/L	0.13	0.01	09/10/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/10/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.33	0.2	10/01/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	81	6.0	09/13/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.047	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.23	0.20	10/01/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.2	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.15	NA	12/15/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.21	NA	12/15/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.010	0.005	09/09/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.30	NA	12/15/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.10	NA	12/15/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.36	NA	12/15/20	KB	Calculation
E coli	CFU/100mL	35	<1	09/09/20	RL @ 17:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: Ronald J. Saari
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.

MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Thursday, December 17, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201637

Date Received: 09/09/20

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	11:30	09/09/20				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Nitrogen	mg/L	0.30	NA	10/04/20	KB	Calculation
Chloride grab	mg/L	29	3.0	09/10/20	LL	EPA 300.0
Total Organic Carbon*	mg/L	1.5	0.017	09/21/20	RIA*	SM 5310 C
Boron	mg/L	0.063	0.010	09/22/20	KB	EPA 200.7
Nitrate-N	mg/L	0.05	0.01	09/10/20	LL	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	09/10/20	LL	EPA 300.0
Ammonia-N *	mg/L	BRL	0.02	09/24/20	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.25	0.2	10/01/20	KB	SM4500-Norg B-C
TDS-grab	mg/L	72	6.0	09/13/20	KB	SM 2540 C
Total Phosphorous (P)	mg/L	0.044	0.005	09/17/20	KB	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.25	0.20	10/01/20	KB	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.1	0.017	09/21/20	RIA*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.07	NA	12/15/20	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.23	NA	12/15/20	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.007	0.005	09/09/20	KB	SM 4500-P
Particulate Organic Carbon	mg/L	0.40	NA	12/15/20	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	ND	NA	12/15/20	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.30	NA	12/15/20	KB	Calculation
E coli	CFU/100mL	<5	<1	09/09/20	RL @ 17:30	EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Thursday, December 17, 2020

Plymouth Environmental Management
K. Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Eel River SW Sampling

Comments:

Project Number:

Sampled By: Kim Tower

Lab Order Number: WW-201638

Date Received: 09/09/20

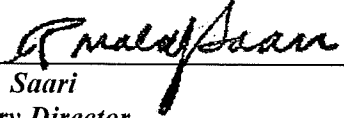
Sample Type		Sample Time	Sample Date	Comments		
S-6A	A	12:00	09/09/20			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Total Nitrogen		mg/L	0.49	NA	10/04/20	KB Calculation
Chloride grab		mg/L	21	3.0	09/10/20	LL EPA 300.0
Total Organic Carbon*		mg/L	1.6	0.017	09/21/20	RIA* SM 5310 C
Boron		mg/L	0.065	0.010	09/22/20	KB EPA 200.7
Nitrate-N		mg/L	0.21	0.01	09/10/20	LL EPA 300.0
Nitrite-N		mg/L	BRL	0.006	09/10/20	LL EPA 300.0
Ammonia-N *		mg/L	BRL	0.02	09/24/20	RIA* SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	0.28	0.2	10/01/20	KB SM4500-Norg B-C
TDS-grab		mg/L	61	6.0	09/13/20	KB SM 2540 C
Total Phosphorous (P)		mg/L	0.046	0.005	09/17/20	KB SM 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	0.23	0.20	10/01/20	KB SM4500 Norg B-C
Dissolved Total Organic Carbon		mg/L	1.6	0.017	09/21/20	RIA* EPA 415.1
Dissolved Inorganic Nitrogen		mg/L	0.23	NA	12/16/20	KB Calculation
Dissolved Organic Nitrogen		mg/L	0.21	NA	12/16/20	KB Calculation
Ortho Phosphorous (P)		mg/L	0.009	0.005	09/09/20	KB SM 4500-P
Particulate Organic Carbon		mg/L	ND	NA	12/16/20	KB SM 5310 C
Particulate Organic Nitrogen		mg/L	0.05	NA	12/16/20	KB Calculation
Total Dissolved Nitrogen		mg/L	0.44	NA	12/16/20	KB Calculation
E coli		CFU/100mL	55	<1	09/09/20	RL @ 17:30 EPA 1603

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

cam

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

WW-201633

201634
WW-201633
RL

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/9/20	1020	S-8A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria <i>e.coli</i>	NONE 45
9/9/20	1030	S-5B	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE 35

1730
RL

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

[Signature] 1245 09/09/20

SCANNED

com

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/9/20	1040	S-4A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN, TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE 90
9/9/20	1055	S-3A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN, TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE 35

Relinquished By: Date/Time

Kim Tan

Received By: Date/Time:

12⁴⁵ 09/09/20

Wm

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Chain of Custody

Client:

Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: Eel River SW Sampling -Plymouth MA
Sampler: Kim Tower (KT)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/9/20	1130	S-2C	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE
9/9/20	1200	S-6A	1	1 Liter Plastic	Diss TKN, TOC diss low, TDS, diss TDS	NONE
			1	1 Liter Plastic	TKN, NH3, TN,TP, TOC	NONE
			1	Glass	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	NONE
			1	100mL Plastic	Bacteria	NONE

WW-201637

WW-201638

25

1730 RL

55

Relinquished By: Date/Time

Kim Tower

Received By: Date/Time:

[Signature] 09/09/20

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 9/17/2020
Date Reported: 9/25/2020
P.O. Number WW-201633-38B

Work Order #: 2009-15437

Project Name: PLYMOUTH ENV

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable, indication of sample analysis at our Hudson, MA laboratory and/or subcontracted results are noted and subcontracted reports are enclosed in their entirety.

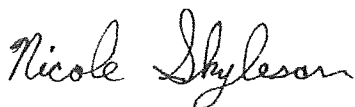
All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Nicole Skyleson
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):

Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508 Hudson MA * M-MA1117, RI LAO00319

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2009-15437

Project Name: PLYMOUTH ENV

Sample Number: 001
Sample Description: WW-201633 S-8A
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 10:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR
TOC	2.0	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.6	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS

Sample Number: 002
Sample Description: WW-201634 S-5B
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 10:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
TOC	1.9	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.6	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR

Sample Number: 003
Sample Description: WW-201635 S-4A
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
TOC	2.0	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.7	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR

Sample Number: 004
Sample Description: WW-201636 S-3A
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 10:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
TOC	1.5	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.2	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.

Work Order #: 2009-15437

Project Name: PLYMOUTH ENV

Sample Number: 005
Sample Description: WW-201637 S-2C
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 11:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
TOC	1.5	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.1	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR

Sample Number: 006
Sample Description: WW-201638A S-6A
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 12:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
TOC	1.6	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
DOC	1.6	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS
Ammonia (as N)	<0.02	0.02	mg/l	SM4500NH3-B,H 18-21ed	9/24/2020 12:50	BR

Sample Number: 007
Sample Description: WW-201638B TRIP BLANK
Sample Type : GRAB
Sample Date / Time : 9/09/2020 @ 17:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
DOC	<0.5	0.5	mg/l	SM5310C 21 ed.	9/21/2020 6:42	SAS

CHAIN OF CUSTODY FORM				ENVIROTECH LABS, INC.				RI Analytical			
PWS:		Project Name:		8 Jan Sebastian Dr., Unit 12 Sandwich, MA 02563 (508)888-6460 1-800-339-6460 FAX (508)888-6446				M RI 015 41 Illinois Avenue Warwick, RI 02888 401-737-8500 401-738-1970			
Sampler:				KT							
Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested		
WW-201633	09/09/20	1020	X		S-8A	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)		
						plastic	H ₂ SO ₄	Surface water	Total TOC low		
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low		
WW-201634	09/09/20	1030	X		S-5B	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)		
						plastic	H ₂ SO ₄	Surface water	Total TOC low		
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low		
WW-201635	09/09/20	1040	X		S-4A	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)		
						plastic	H ₂ SO ₄	Surface water	Total TOC low		
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low		
WW-201636	09/09/20	1055	X		S-3A	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)		
						plastic	H ₂ SO ₄	Surface water	Total TOC low		
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low		
WW-201637	09/09/20	1130	X		S-2C	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)		
						plastic	H ₂ SO ₄	Surface water	Total TOC low		
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low		
WW-201638A	09/09/20	1200	X		S-6A	P	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)		
						plastic	H ₂ SO ₄	Surface water	Total TOC low		
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low		
WW-201638B	09/09/20	1700	X		Trip Blank	plastic	H ₂ SO ₄	Surface water	Ammonia-N (0.02 mdl)		
						plastic	H ₂ SO ₄	Surface water	Total TOC low		
						plastic	H ₂ SO ₄	Surface water	Dissolved TOC low		
						plastic	H ₂ SO ₄	DI water	Dissolved TOC low		
						(19)					
Relinquished: <i>[Signature]</i>				Date/Time: 9/17/2020 1320		Received: <i>[Signature]</i>		Contact lab with any exceeded MCL			
Relinquished: <i>[Signature]</i>				Date/Time: 9/17/2020 1525		Received: <i>[Signature]</i>		4.0°C			

[illegible]

Dissolved Inorganic Nitrogen
Dissolved Organic Nitrogen
Particulate Organic Carbon
Particulate Organic Nitrogen