

ANALYTICAL REPORT

Friday, June 19, 2009

Kim Michaelis
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Eel River Watershed, Plymouth MA
Location:

Order No.: 0904320

Dear Kim Michaelis:

GeoLabs, Inc. received 4 sample(s) on 4/17/2009 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. All data for associated QC met method or laboratory specifications, except when noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

Lab ID: 0904320-001

Collection Date: 4/17/2009 9:40:00 AM

Client Sample ID: 2DR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	169	5.00		mg/L	1	Analyst: FC 4/21/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/21/2009
Copper	ND	0.0400		mg/L	1	4/21/2009
Iron	18.0	0.600		mg/L	10	4/21/2009
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: EC 4/22/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	Analyst: ZYZ 4/25/2009 9:30:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/25/2009 9:30:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/25/2009 9:30:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/25/2009 9:30:00 AM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/25/2009 9:30:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
2-Butanone	ND	10.0		µg/L	1	4/25/2009 9:30:00 AM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM
2-Chlorotoluene	ND	5.00		µg/L	1	4/25/2009 9:30:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Hexanone	ND	10.0	µg/L	1	4/25/2009 9:30:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Acetone	ND	50.0	µg/L	1	4/25/2009 9:30:00 AM
Acrolein	ND	50.0	µg/L	1	4/25/2009 9:30:00 AM
Acrylonitrile	ND	50.0	µg/L	1	4/25/2009 9:30:00 AM
Benzene	ND	1.00	µg/L	1	4/25/2009 9:30:00 AM
Bromobenzene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Bromochloromethane	ND	2.00	µg/L	1	4/25/2009 9:30:00 AM
Bromodichloromethane	ND	2.00	µg/L	1	4/25/2009 9:30:00 AM
Bromoform	ND	2.00	µg/L	1	4/25/2009 9:30:00 AM
Bromomethane	ND	2.00	µg/L	1	4/25/2009 9:30:00 AM
Carbon Disulfide	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/25/2009 9:30:00 AM
Chlorobenzene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Chloroethane	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Chloroform	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Chloromethane	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/25/2009 9:30:00 AM
Dibromochloromethane	ND	2.00	µg/L	1	4/25/2009 9:30:00 AM
Dibromomethane	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Ethylbenzene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/25/2009 9:30:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Methylene Chloride	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Naphthalene	ND	20.0	µg/L	1	4/25/2009 9:30:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Styrene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Toluene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/25/2009 9:30:00 AM
Trichloroethene	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Vinyl Chloride	ND	2.00	µg/L	1	4/25/2009 9:30:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Xylenes, Total	ND	5.00	µg/L	1	4/25/2009 9:30:00 AM
Surr: 1,2-Dichloroethane-d4	83.8	70-130	%REC	1	4/25/2009 9:30:00 AM
Surr: 4-Bromofluorobenzene	100	70-130	%REC	1	4/25/2009 9:30:00 AM
Surr: Dibromofluoromethane	91.9	70-130	%REC	1	4/25/2009 9:30:00 AM
Surr: Toluene-d8	98.0	70-130	%REC	1	4/25/2009 9:30:00 AM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	4/17/2009 6:41:00 PM
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NOTES:

Sample was analyzed at M-CT008.

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	ND	0.100	mg/L	1	4/17/2009 6:51:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/24/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	0.222	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	66.6	1.50	mg/L	1	5/1/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.139	0.130	mg/L	1	5/7/2009
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	0.0592	0.0257	mg/L	1	4/17/2009 3:00:00 PM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.304	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 12-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904320**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 0.53 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 5/10/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

Lab ID: 0904320-002

Collection Date: 4/17/2009

Client Sample ID: A15

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL DISSOLVED SOLIDS - SM2540C

Analyst: FC

Total Dissolved Solids	138	5.00		mg/L	1	4/21/2009
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TOTAL METALS BY ICP - SW6010B

Analyst: QS

Copper	ND	0.0400		mg/L	1	4/21/2009
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TOTAL METALS BY ICP - SW6010B

Analyst: QS

Boron	ND	0.0300		mg/L	1	4/21/2009
Iron	1.52	0.0600		mg/L	1	4/21/2009

TOTAL MERCURY - E245.1

Analyst: EC

Mercury	ND	0.0005		mg/L	1	4/22/2009
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/25/2009 10:07:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/25/2009 10:07:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/25/2009 10:07:00 AM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/25/2009 10:07:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/25/2009 10:07:00 AM
2-Butanone	ND	10.0		µg/L	1	4/25/2009 10:07:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Chloroethyl Vinyl Ether	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
2-Chlorotoluene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
2-Hexanone	ND	10.0	µg/L	1	4/25/2009 10:07:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Acetone	ND	50.0	µg/L	1	4/25/2009 10:07:00 AM
Acrolein	ND	50.0	µg/L	1	4/25/2009 10:07:00 AM
Acrylonitrile	ND	50.0	µg/L	1	4/25/2009 10:07:00 AM
Benzene	ND	1.00	µg/L	1	4/25/2009 10:07:00 AM
Bromobenzene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Bromochloromethane	ND	2.00	µg/L	1	4/25/2009 10:07:00 AM
Bromodichloromethane	ND	2.00	µg/L	1	4/25/2009 10:07:00 AM
Bromoform	ND	2.00	µg/L	1	4/25/2009 10:07:00 AM
Bromomethane	ND	2.00	µg/L	1	4/25/2009 10:07:00 AM
Carbon Disulfide	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/25/2009 10:07:00 AM
Chlorobenzene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Chloroethane	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Chloroform	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Chloromethane	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/25/2009 10:07:00 AM
Dibromochloromethane	ND	2.00	µg/L	1	4/25/2009 10:07:00 AM
Dibromomethane	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Ethylbenzene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/25/2009 10:07:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Methylene Chloride	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Naphthalene	ND	20.0	µg/L	1	4/25/2009 10:07:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Styrene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Toluene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/25/2009 10:07:00 AM
Trichloroethene	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Trichlorofluoromethane	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Vinyl Chloride	ND	2.00	µg/L	1	4/25/2009 10:07:00 AM
Xylenes, Total	ND	5.00	µg/L	1	4/25/2009 10:07:00 AM
Surr: 1,2-Dichloroethane-d4	88.8	70-130	%REC	1	4/25/2009 10:07:00 AM
Surr: 4-Bromofluorobenzene	100	70-130	%REC	1	4/25/2009 10:07:00 AM
Surr: Dibromofluoromethane	92.0	70-130	%REC	1	4/25/2009 10:07:00 AM
Surr: Toluene-d8	100	70-130	%REC	1	4/25/2009 10:07:00 AM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	4/17/2009 6:45:00 PM
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NOTES:

Sample was analyzed at M-CT008.

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	1.20	0.100	mg/L	1	4/17/2009 6:51:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/24/2009
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AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	0.377	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	28.2	1.50	mg/L	1	5/1/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	1.38	0.130	mg/L	1	5/7/2009
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	0.0395	0.0257	mg/L	1	4/17/2009 3:00:00 PM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.193	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
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Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 12-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904320**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 1.8 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 5/10/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

Lab ID: 0904320-003

Collection Date: 4/17/2009 8:50:00 AM

Client Sample ID: Bradford

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	38.0	5.00		mg/L	1	Analyst: FC 4/21/2009
TOTAL METALS BY ICP - SW6010B						
Copper	ND	0.0400		mg/L	1	Analyst: QS 4/21/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/21/2009
Iron	ND	0.0600		mg/L	1	4/21/2009
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: EC 4/22/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	Analyst: ZYZ 4/25/2009 4:14:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/25/2009 4:14:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/25/2009 4:14:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/25/2009 4:14:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/25/2009 4:14:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/25/2009 4:14:00 PM
2-Butanone	ND	10.0		µg/L	1	4/25/2009 4:14:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Chloroethyl Vinyl Ether	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
2-Chlorotoluene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
2-Hexanone	ND	10.0	µg/L	1	4/25/2009 4:14:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Acetone	ND	50.0	µg/L	1	4/25/2009 4:14:00 PM
Acrolein	ND	50.0	µg/L	1	4/25/2009 4:14:00 PM
Acrylonitrile	ND	50.0	µg/L	1	4/25/2009 4:14:00 PM
Benzene	ND	1.00	µg/L	1	4/25/2009 4:14:00 PM
Bromobenzene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Bromochloromethane	ND	2.00	µg/L	1	4/25/2009 4:14:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	4/25/2009 4:14:00 PM
Bromoform	ND	2.00	µg/L	1	4/25/2009 4:14:00 PM
Bromomethane	ND	2.00	µg/L	1	4/25/2009 4:14:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/25/2009 4:14:00 PM
Chlorobenzene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Chloroethane	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Chloroform	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Chloromethane	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/25/2009 4:14:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	4/25/2009 4:14:00 PM
Dibromomethane	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Ethylbenzene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/25/2009 4:14:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Methylene Chloride	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Naphthalene	ND	20.0	µg/L	1	4/25/2009 4:14:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Styrene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Toluene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/25/2009 4:14:00 PM
Trichloroethene	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Trichlorofluoromethane	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	4/25/2009 4:14:00 PM
Xylenes, Total	ND	5.00	µg/L	1	4/25/2009 4:14:00 PM
Surr: 1,2-Dichloroethane-d4	97.4	70-130	%REC	1	4/25/2009 4:14:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%REC	1	4/25/2009 4:14:00 PM
Surr: Dibromofluoromethane	96.7	70-130	%REC	1	4/25/2009 4:14:00 PM
Surr: Toluene-d8	97.0	70-130	%REC	1	4/25/2009 4:14:00 PM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	4/17/2009 6:47:00 PM
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NOTES:

Sample was analyzed at M-CT008.

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	ND	0.100	mg/L	1	4/17/2009 6:51:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/24/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	0.216	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	8.45	1.50	mg/L	1	5/1/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	ND	0.130	mg/L	1	5/7/2009
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	4/17/2009 3:00:00 PM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.186	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
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Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 12-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904320**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 0.40 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 5/10/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

Lab ID: 0904320-004

Collection Date: 4/17/2009 8:50:00 AM

Client Sample ID: 2SR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	110	5.00		mg/L	1	Analyst: FC 4/21/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/21/2009
Copper	ND	0.0400		mg/L	1	4/21/2009
Iron	0.0890	0.0600		mg/L	1	4/21/2009
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: EC 4/22/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	Analyst: ZYZ 4/25/2009 4:51:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/25/2009 4:51:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/25/2009 4:51:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/25/2009 4:51:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/25/2009 4:51:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
2-Butanone	ND	10.0		µg/L	1	4/25/2009 4:51:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	4/25/2009 4:51:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Hexanone	ND	10.0	µg/L	1	4/25/2009 4:51:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Acetone	ND	50.0	µg/L	1	4/25/2009 4:51:00 PM
Acrolein	ND	50.0	µg/L	1	4/25/2009 4:51:00 PM
Acrylonitrile	ND	50.0	µg/L	1	4/25/2009 4:51:00 PM
Benzene	ND	1.00	µg/L	1	4/25/2009 4:51:00 PM
Bromobenzene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Bromochloromethane	ND	2.00	µg/L	1	4/25/2009 4:51:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	4/25/2009 4:51:00 PM
Bromoform	ND	2.00	µg/L	1	4/25/2009 4:51:00 PM
Bromomethane	ND	2.00	µg/L	1	4/25/2009 4:51:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/25/2009 4:51:00 PM
Chlorobenzene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Chloroethane	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Chloroform	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Chloromethane	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/25/2009 4:51:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	4/25/2009 4:51:00 PM
Dibromomethane	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Ethylbenzene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/25/2009 4:51:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Methylene Chloride	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Naphthalene	ND	20.0	µg/L	1	4/25/2009 4:51:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Styrene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Toluene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/25/2009 4:51:00 PM
Trichloroethene	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	4/25/2009 4:51:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 12-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904320

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Xylenes, Total	ND	5.00	µg/L	1	4/25/2009 4:51:00 PM
Surr: 1,2-Dichloroethane-d4	97.8	70-130	%REC	1	4/25/2009 4:51:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	%REC	1	4/25/2009 4:51:00 PM
Surr: Dibromofluoromethane	95.1	70-130	%REC	1	4/25/2009 4:51:00 PM
Surr: Toluene-d8	97.7	70-130	%REC	1	4/25/2009 4:51:00 PM

NITRITE - SM4500-NO3-F

Analyst: SUB

Nitrite	ND	0.0100	mg/L	1	4/17/2009 6:48:00 PM
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NOTES:

Sample was analyzed at M-CT008.

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	1.40	0.100	mg/L	1	4/17/2009 6:51:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/24/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	0.155	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	41.0	1.50	mg/L	1	5/1/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	1.83	0.130	mg/L	1	5/7/2009
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	4/17/2009 3:00:00 PM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.270	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: RP

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 12-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904320**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 1.8 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 5/10/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
kmichaelis@townhall.plymouth.ma.us

Project Name: **Ground Water** - Eel River Watershed, Plymouth MA

Sampler: Kim Michaelis (KM), Patrick Farah (PF)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/17/09	0940	202	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
4/17/09	1150	A15	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE

Relinquished By: Date/Time

Kim Michaelis 4/17/09

WC Jones 4-17-09 1:25 PM

Received By: Date/Time:

WC Jones 4-17-09 12:30 PM

KC 4/17/09 13:30

0904320

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
kmichaelis@townhall.plymouth.ma.us

Project Name: **Ground Water - Eel River Watershed, Plymouth MA**

Sampler: **Kim Michaelis (KM), Patrick Farah (PF)**

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/17/09	0830	Bradford	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
4/17/09	0850	252 252	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE

Relinquished By: Date/Time

Kim Michaelis 4/17/09

AC 4-17-09 1:16 PM

Received By:

Date/Time:

WJ 4-17-09 12:20 PM

KC 4/17/09 13:30

0904320

ANALYTICAL REPORT

Friday, June 19, 2009

Kim Michaelis
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Eel River Watershed, Plymouth MA
Location:

Order No.: 0904312

Dear Kim Michaelis:

GeoLabs, Inc. received 2 sample(s) on 4/16/2009 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. All data for associated QC method or laboratory specifications, except when noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904312

Lab ID: 0904312-001

Collection Date: 4/16/2009 1:55:00 PM

Client Sample ID: 7SR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: FC
Total Dissolved Solids	200	5.00		mg/L	1	4/16/2009
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Copper	ND	0.0400		mg/L	1	4/21/2009
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Boron	ND	0.0300		mg/L	1	4/21/2009
Iron	ND	0.0600		mg/L	1	4/21/2009
TOTAL MERCURY - E245.1						Analyst: EC
Mercury	ND	0.0005		mg/L	1	4/22/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: ZYZ
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/23/2009 1:16:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,2,4-Trimethylbenzene	41.8	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/23/2009 1:16:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/23/2009 1:16:00 AM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/23/2009 1:16:00 AM
1,3,5-Trimethylbenzene	12.0	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/23/2009 1:16:00 AM
2-Butanone	ND	10.0		µg/L	1	4/23/2009 1:16:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904312

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Chloroethyl Vinyl Ether	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
2-Chlorotoluene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
2-Hexanone	ND	10.0	µg/L	1	4/23/2009 1:16:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Acetone	ND	50.0	µg/L	1	4/23/2009 1:16:00 AM
Acrolein	ND	50.0	µg/L	1	4/23/2009 1:16:00 AM
Acrylonitrile	ND	50.0	µg/L	1	4/23/2009 1:16:00 AM
Benzene	ND	1.00	µg/L	1	4/23/2009 1:16:00 AM
Bromobenzene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Bromochloromethane	ND	2.00	µg/L	1	4/23/2009 1:16:00 AM
Bromodichloromethane	ND	2.00	µg/L	1	4/23/2009 1:16:00 AM
Bromoform	ND	2.00	µg/L	1	4/23/2009 1:16:00 AM
Bromomethane	ND	2.00	µg/L	1	4/23/2009 1:16:00 AM
Carbon Disulfide	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/23/2009 1:16:00 AM
Chlorobenzene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Chloroethane	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Chloroform	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Chloromethane	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/23/2009 1:16:00 AM
Dibromochloromethane	ND	2.00	µg/L	1	4/23/2009 1:16:00 AM
Dibromomethane	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Ethylbenzene	9.74	5.00	µg/L	1	4/23/2009 1:16:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/23/2009 1:16:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Methylene Chloride	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Naphthalene	ND	20.0	µg/L	1	4/23/2009 1:16:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
n-Propylbenzene	8.36	5.00	µg/L	1	4/23/2009 1:16:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Styrene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Toluene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/23/2009 1:16:00 AM
Trichloroethene	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904312

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Trichlorofluoromethane	ND	5.00	µg/L	1	4/23/2009 1:16:00 AM
Vinyl Chloride	ND	2.00	µg/L	1	4/23/2009 1:16:00 AM
Xylenes, Total	17.6	5.00	µg/L	1	4/23/2009 1:16:00 AM
Surr: 1,2-Dichloroethane-d4	79.1	70-130	%REC	1	4/23/2009 1:16:00 AM
Surr: 4-Bromofluorobenzene	100	70-130	%REC	1	4/23/2009 1:16:00 AM
Surr: Dibromofluoromethane	87.0	70-130	%REC	1	4/23/2009 1:16:00 AM
Surr: Toluene-d8	104	70-130	%REC	1	4/23/2009 1:16:00 AM

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	ND	0.100	mg/L	1	4/17/2009 6:51:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/24/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	0.200	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	93.7	1.50	mg/L	1	4/21/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	ND	0.130	mg/L	1	5/7/2009
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	4/17/2009
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	4/17/2009 8:30:00 AM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	0.172	0.130	mg/L	1	5/6/2009
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Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904312**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen ND 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 5/10/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904312

Lab ID: 0904312-002

Collection Date: 4/16/2009 2:47:00 PM

Client Sample ID: 3D

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	52.0	5.00		mg/L	1	Analyst: FC 4/16/2009
TOTAL METALS BY ICP - SW6010B						
Copper	ND	0.0400		mg/L	1	Analyst: QS 4/21/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/21/2009
Iron	0.0730	0.0600		mg/L	1	4/21/2009
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: EC 4/22/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	Analyst: ZYZ 4/23/2009 1:53:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/23/2009 1:53:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,2,4-Trimethylbenzene	32.5	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/23/2009 1:53:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/23/2009 1:53:00 AM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/23/2009 1:53:00 AM
1,3,5-Trimethylbenzene	8.88	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/23/2009 1:53:00 AM
2-Butanone	ND	10.0		µg/L	1	4/23/2009 1:53:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904312

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Chloroethyl Vinyl Ether	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
2-Chlorotoluene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
2-Hexanone	ND	10.0	µg/L	1	4/23/2009 1:53:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Acetone	ND	50.0	µg/L	1	4/23/2009 1:53:00 AM
Acrolein	ND	50.0	µg/L	1	4/23/2009 1:53:00 AM
Acrylonitrile	ND	50.0	µg/L	1	4/23/2009 1:53:00 AM
Benzene	ND	1.00	µg/L	1	4/23/2009 1:53:00 AM
Bromobenzene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Bromochloromethane	ND	2.00	µg/L	1	4/23/2009 1:53:00 AM
Bromodichloromethane	ND	2.00	µg/L	1	4/23/2009 1:53:00 AM
Bromoform	ND	2.00	µg/L	1	4/23/2009 1:53:00 AM
Bromomethane	ND	2.00	µg/L	1	4/23/2009 1:53:00 AM
Carbon Disulfide	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/23/2009 1:53:00 AM
Chlorobenzene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Chloroethane	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Chloroform	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Chloromethane	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/23/2009 1:53:00 AM
Dibromochloromethane	ND	2.00	µg/L	1	4/23/2009 1:53:00 AM
Dibromomethane	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Ethylbenzene	6.00	5.00	µg/L	1	4/23/2009 1:53:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/23/2009 1:53:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Methylene Chloride	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Naphthalene	ND	20.0	µg/L	1	4/23/2009 1:53:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
n-Propylbenzene	6.06	5.00	µg/L	1	4/23/2009 1:53:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Styrene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Toluene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/23/2009 1:53:00 AM
Trichloroethene	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904312

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Trichlorofluoromethane	ND	5.00	µg/L	1	4/23/2009 1:53:00 AM
Vinyl Chloride	ND	2.00	µg/L	1	4/23/2009 1:53:00 AM
Xylenes, Total	10.3	5.00	µg/L	1	4/23/2009 1:53:00 AM
Surr: 1,2-Dichloroethane-d4	77.0	70-130	%REC	1	4/23/2009 1:53:00 AM
Surr: 4-Bromofluorobenzene	101	70-130	%REC	1	4/23/2009 1:53:00 AM
Surr: Dibromofluoromethane	87.8	70-130	%REC	1	4/23/2009 1:53:00 AM
Surr: Toluene-d8	103	70-130	%REC	1	4/23/2009 1:53:00 AM

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	ND	0.100	mg/L	1	4/17/2009 6:51:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/24/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	0.283	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	ND	1.50	mg/L	1	4/21/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.417	0.130	mg/L	1	5/7/2009
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	4/17/2009
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	4/17/2009 8:30:00 AM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
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Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904312**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen ND 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 5/10/2009

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
kmichaelis@townhall.plymouth.ma.us

Project Name: **Ground Water** - Eel River Watershed, Plymouth MA

Sampler: Kim Michaelis (KM), Patrick Farah (PF)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/16/09	1355	7SR	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
4/16/09	1447	3D	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE

Relinquished By: Date/Time

kmichaelis
KM 4/16/09 5:20

Received By: Date/Time:

SPM 4/16/09 4:45
KC 4/16/09 12:30

0904312

ANALYTICAL REPORT

Friday, June 19, 2009

Kim Michaelis
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Eel River Watershed, Plymouth MA
Location:

Order No.: 0904278

Dear Kim Michaelis:

GeoLabs, Inc. received 3 sample(s) on 4/15/2009 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. All data for associated QC method or laboratory specifications, except when noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904278

Lab ID: 0904278-001

Collection Date: 4/15/2009 9:40:00 AM

Client Sample ID: A21-A

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	43.0	5.00		mg/L	1	Analyst: FC 4/16/2009
TOTAL METALS BY ICP - SW6010B						
Copper	ND	0.0400		mg/L	1	Analyst: QS 4/17/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0370		mg/L	1	Analyst: QS 4/17/2009
Iron	2.48	0.0600		mg/L	1	4/17/2009
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: EC 4/16/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	Analyst: ZYZ 4/21/2009 3:18:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/21/2009 3:18:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/21/2009 3:18:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/21/2009 3:18:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/21/2009 3:18:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/21/2009 3:18:00 PM
2-Butanone	288	250		µg/L	50	4/22/2009 5:55:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904278

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Chloroethyl Vinyl Ether	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
2-Chlorotoluene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
2-Hexanone	ND	10.0	µg/L	1	4/21/2009 3:18:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Acetone	256	250	µg/L	50	4/22/2009 5:55:00 PM
Acrolein	ND	50.0	µg/L	1	4/21/2009 3:18:00 PM
Acrylonitrile	ND	50.0	µg/L	1	4/21/2009 3:18:00 PM
Benzene	ND	1.00	µg/L	1	4/21/2009 3:18:00 PM
Bromobenzene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Bromochloromethane	ND	2.00	µg/L	1	4/21/2009 3:18:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	4/21/2009 3:18:00 PM
Bromoform	ND	2.00	µg/L	1	4/21/2009 3:18:00 PM
Bromomethane	ND	2.00	µg/L	1	4/21/2009 3:18:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/21/2009 3:18:00 PM
Chlorobenzene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Chloroethane	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Chloroform	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Chloromethane	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/21/2009 3:18:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	4/21/2009 3:18:00 PM
Dibromomethane	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Ethylbenzene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/21/2009 3:18:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Methylene Chloride	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Naphthalene	ND	20.0	µg/L	1	4/21/2009 3:18:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Styrene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Toluene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/21/2009 3:18:00 PM
Trichloroethene	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904278

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Trichlorofluoromethane	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	4/21/2009 3:18:00 PM
Xylenes, Total	ND	5.00	µg/L	1	4/21/2009 3:18:00 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%REC	1	4/21/2009 3:18:00 PM
Surr: 4-Bromofluorobenzene	115	70-130	%REC	1	4/21/2009 3:18:00 PM
Surr: Dibromofluoromethane	99.4	70-130	%REC	1	4/21/2009 3:18:00 PM
Surr: Toluene-d8	93.8	70-130	%REC	1	4/21/2009 3:18:00 PM

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	ND	0.100	mg/L	1	4/16/2009 7:59:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	1.2	1.0	mg/L	1	4/24/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	0.360	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	18.1	1.50	mg/L	1	4/21/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	5.83	0.130	mg/L	1	5/7/2009
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	4/17/2009
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	0.0410	0.0257	mg/L	1	4/17/2009 8:30:00 AM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	0.185	0.130	mg/L	1	5/6/2009
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Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904278**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 0.41 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 5/10/2009

Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904278

Lab ID: 0904278-002

Collection Date: 4/15/2009 10:50:00 AM

Client Sample ID: 5S

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	201	5.00		mg/L	1	Analyst: FC 4/16/2009
TOTAL METALS BY ICP - SW6010B						
Copper	ND	0.0400		mg/L	1	Analyst: QS 4/17/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0370		mg/L	1	Analyst: QS 4/17/2009
Iron	6.85	0.0600		mg/L	1	4/17/2009
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: EC 4/16/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	Analyst: ZYZ 4/21/2009 3:53:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/21/2009 3:53:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/21/2009 3:53:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/21/2009 3:53:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/21/2009 3:53:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/21/2009 3:53:00 PM
2-Butanone	ND	10.0		µg/L	1	4/21/2009 3:53:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904278

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Chloroethyl Vinyl Ether	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
2-Chlorotoluene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
2-Hexanone	ND	10.0	µg/L	1	4/21/2009 3:53:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Acetone	ND	50.0	µg/L	1	4/21/2009 3:53:00 PM
Acrolein	ND	50.0	µg/L	1	4/21/2009 3:53:00 PM
Acrylonitrile	ND	50.0	µg/L	1	4/21/2009 3:53:00 PM
Benzene	ND	1.00	µg/L	1	4/21/2009 3:53:00 PM
Bromobenzene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Bromochloromethane	ND	2.00	µg/L	1	4/21/2009 3:53:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	4/21/2009 3:53:00 PM
Bromoform	ND	2.00	µg/L	1	4/21/2009 3:53:00 PM
Bromomethane	ND	2.00	µg/L	1	4/21/2009 3:53:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/21/2009 3:53:00 PM
Chlorobenzene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Chloroethane	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Chloroform	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Chloromethane	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/21/2009 3:53:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	4/21/2009 3:53:00 PM
Dibromomethane	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Ethylbenzene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/21/2009 3:53:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Methylene Chloride	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Naphthalene	ND	20.0	µg/L	1	4/21/2009 3:53:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Styrene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Toluene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/21/2009 3:53:00 PM
Trichloroethene	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904278

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Trichlorofluoromethane	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	4/21/2009 3:53:00 PM
Xylenes, Total	ND	5.00	µg/L	1	4/21/2009 3:53:00 PM
Surr: 1,2-Dichloroethane-d4	107	70-130	%REC	1	4/21/2009 3:53:00 PM
Surr: 4-Bromofluorobenzene	110	70-130	%REC	1	4/21/2009 3:53:00 PM
Surr: Dibromofluoromethane	101	70-130	%REC	1	4/21/2009 3:53:00 PM
Surr: Toluene-d8	97.8	70-130	%REC	1	4/21/2009 3:53:00 PM

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	0.280	0.100	mg/L	1	4/16/2009 7:59:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/24/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	0.277	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	14.5	3.00	mg/L	2	4/21/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.419	0.130	mg/L	1	5/7/2009
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	4/17/2009
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	0.0273	0.0257	mg/L	1	4/17/2009 8:30:00 AM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
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Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904278**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 0.44 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous 3.01 0.0400 mg/L 1 5/10/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904278

Lab ID: 0904278-003

Collection Date: 4/15/2009 2:10:00 PM

Client Sample ID: A17

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	38.0	5.00		mg/L	1	Analyst: FC 4/16/2009
TOTAL METALS BY ICP - SW6010B						
Copper	ND	0.0400		mg/L	1	Analyst: QS 4/17/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0370		mg/L	1	Analyst: QS 4/17/2009
Iron	ND	0.0600		mg/L	1	4/17/2009
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: EC 4/16/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	Analyst: ZYZ 4/21/2009 4:29:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/21/2009 4:29:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/21/2009 4:29:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/21/2009 4:29:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/21/2009 4:29:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/21/2009 4:29:00 PM
2-Butanone	ND	10.0		µg/L	1	4/21/2009 4:29:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904278

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Chloroethyl Vinyl Ether	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
2-Chlorotoluene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
2-Hexanone	ND	10.0	µg/L	1	4/21/2009 4:29:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Acetone	ND	50.0	µg/L	1	4/21/2009 4:29:00 PM
Acrolein	ND	50.0	µg/L	1	4/21/2009 4:29:00 PM
Acrylonitrile	ND	50.0	µg/L	1	4/21/2009 4:29:00 PM
Benzene	ND	1.00	µg/L	1	4/21/2009 4:29:00 PM
Bromobenzene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Bromochloromethane	ND	2.00	µg/L	1	4/21/2009 4:29:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	4/21/2009 4:29:00 PM
Bromoform	ND	2.00	µg/L	1	4/21/2009 4:29:00 PM
Bromomethane	ND	2.00	µg/L	1	4/21/2009 4:29:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/21/2009 4:29:00 PM
Chlorobenzene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Chloroethane	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Chloroform	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Chloromethane	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/21/2009 4:29:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	4/21/2009 4:29:00 PM
Dibromomethane	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Ethylbenzene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/21/2009 4:29:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Methylene Chloride	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Naphthalene	ND	20.0	µg/L	1	4/21/2009 4:29:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Styrene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Toluene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/21/2009 4:29:00 PM
Trichloroethene	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904278

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Trichlorofluoromethane	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	4/21/2009 4:29:00 PM
Xylenes, Total	ND	5.00	µg/L	1	4/21/2009 4:29:00 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%REC	1	4/21/2009 4:29:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%REC	1	4/21/2009 4:29:00 PM
Surr: Dibromofluoromethane	91.1	70-130	%REC	1	4/21/2009 4:29:00 PM
Surr: Toluene-d8	106	70-130	%REC	1	4/21/2009 4:29:00 PM

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	1.80	0.100	mg/L	1	4/16/2009 7:59:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/24/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	ND	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	18.9	1.50	mg/L	1	4/21/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	1.88	0.130	mg/L	1	5/7/2009
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	4/17/2009
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	4/17/2009 8:30:00 AM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.533	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
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Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904278**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 2.4 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 5/10/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
kmichaelis@townhall.plymouth.ma.us
Project Name: **Ground Water - Eel River Watershed, Plymouth MA**
Sampler: **Kim Michaelis (KM), Patrick Farah (PF)**

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/15/09	0940	A21-A	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
4/15/09	1050	SS	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE

Relinquished By: Date/Time

Kim Michaelis; 4-15-09 3PM
Patrick Farah 4-15-09 335PM

Received By:

Date/Time:

Kim Michaelis 4-15-09 3PM
KC 4/15/09 15:40

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
kmichaelis@townhall.plymouth.ma.us
Project Name: **Ground Water** - Eel River Watershed, Plymouth MA
Sampler: Kim Michaelis (KM), Patrick Farah (PF)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/15/09	1410	A17	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE

Relinquished By: Date/Time

Kim Michaelis 4-15-09 3pm
4-15-09 335pm

Received By: Date/Time:

PF 4-15-09-3pm
KC 4/15/09 15:40

0904278

ANALYTICAL REPORT

Friday, June 19, 2009

Kim Michaelis
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Eel River Watershed, Plymouth MA
Location:

Order No.: 0904254

Dear Kim Michaelis:

GeoLabs, Inc. received 3 sample(s) on 4/14/2009 for the analyses presented in the following report.

Re-issued with lower detection limits for Total Phosphorous. All data for associated QC met method or laboratory specifications, except when noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904254

Lab ID: 0904254-001

Collection Date: 4/14/2009 11:30:00 AM

Client Sample ID: GW-1

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: FC
Total Dissolved Solids	238	5.00		mg/L	1	4/14/2009
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Copper	ND	0.0400		mg/L	1	4/15/2009
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Boron	ND	0.0370		mg/L	1	4/15/2009
Iron	ND	0.0600		mg/L	1	4/15/2009
TOTAL MERCURY - E245.1						Analyst: EC
Mercury	ND	0.0005		mg/L	1	4/16/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: ZYZ
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/21/2009 5:05:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/21/2009 5:05:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/21/2009 5:05:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/21/2009 5:05:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/21/2009 5:05:00 PM
2-Butanone	ND	10.0		µg/L	1	4/21/2009 5:05:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904254

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Chloroethyl Vinyl Ether	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
2-Chlorotoluene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
2-Hexanone	ND	10.0	µg/L	1	4/21/2009 5:05:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Acetone	ND	50.0	µg/L	1	4/21/2009 5:05:00 PM
Acrolein	ND	50.0	µg/L	1	4/21/2009 5:05:00 PM
Acrylonitrile	ND	50.0	µg/L	1	4/21/2009 5:05:00 PM
Benzene	ND	1.00	µg/L	1	4/21/2009 5:05:00 PM
Bromobenzene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Bromochloromethane	ND	2.00	µg/L	1	4/21/2009 5:05:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	4/21/2009 5:05:00 PM
Bromoform	ND	2.00	µg/L	1	4/21/2009 5:05:00 PM
Bromomethane	ND	2.00	µg/L	1	4/21/2009 5:05:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/21/2009 5:05:00 PM
Chlorobenzene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Chloroethane	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Chloroform	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Chloromethane	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/21/2009 5:05:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	4/21/2009 5:05:00 PM
Dibromomethane	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Ethylbenzene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/21/2009 5:05:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Methylene Chloride	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Naphthalene	ND	20.0	µg/L	1	4/21/2009 5:05:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Styrene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Toluene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/21/2009 5:05:00 PM
Trichloroethene	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904254

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Trichlorofluoromethane	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	4/21/2009 5:05:00 PM
Xylenes, Total	ND	5.00	µg/L	1	4/21/2009 5:05:00 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%REC	1	4/21/2009 5:05:00 PM
Surr: 4-Bromofluorobenzene	115	70-130	%REC	1	4/21/2009 5:05:00 PM
Surr: Dibromofluoromethane	94.2	70-130	%REC	1	4/21/2009 5:05:00 PM
Surr: Toluene-d8	105	70-130	%REC	1	4/21/2009 5:05:00 PM

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	0.190	0.100	mg/L	1	4/15/2009 8:00:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/23/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	ND	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	64.5	1.50	mg/L	1	4/21/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.203	0.130	mg/L	1	5/7/2009
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	4/15/2009 9:52:00 AM
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	4/15/2009 8:30:00 AM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.247	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
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Qualifiers:

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904254**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 0.54 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 4/24/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904254

Lab ID: 0904254-002

Collection Date: 4/14/2009 12:25:00 PM

Client Sample ID: A-13

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: FC
Total Dissolved Solids	81.0	5.00		mg/L	1	4/14/2009
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Copper	ND	0.0400		mg/L	1	4/15/2009
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Boron	ND	0.0370		mg/L	1	4/15/2009
Iron	2.21	0.0600		mg/L	1	4/15/2009
TOTAL MERCURY - E245.1						Analyst: EC
Mercury	ND	0.0005		mg/L	1	4/16/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: ZYZ
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/21/2009 5:41:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/21/2009 5:41:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/21/2009 5:41:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/21/2009 5:41:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/21/2009 5:41:00 PM
2-Butanone	ND	10.0		µg/L	1	4/21/2009 5:41:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904254

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Chloroethyl Vinyl Ether	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
2-Chlorotoluene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
2-Hexanone	ND	10.0	µg/L	1	4/21/2009 5:41:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Acetone	ND	50.0	µg/L	1	4/21/2009 5:41:00 PM
Acrolein	ND	50.0	µg/L	1	4/21/2009 5:41:00 PM
Acrylonitrile	ND	50.0	µg/L	1	4/21/2009 5:41:00 PM
Benzene	ND	1.00	µg/L	1	4/21/2009 5:41:00 PM
Bromobenzene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Bromochloromethane	ND	2.00	µg/L	1	4/21/2009 5:41:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	4/21/2009 5:41:00 PM
Bromoform	ND	2.00	µg/L	1	4/21/2009 5:41:00 PM
Bromomethane	ND	2.00	µg/L	1	4/21/2009 5:41:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/21/2009 5:41:00 PM
Chlorobenzene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Chloroethane	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Chloroform	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Chloromethane	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/21/2009 5:41:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	4/21/2009 5:41:00 PM
Dibromomethane	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Ethylbenzene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/21/2009 5:41:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Methylene Chloride	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Naphthalene	ND	20.0	µg/L	1	4/21/2009 5:41:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Styrene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Toluene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/21/2009 5:41:00 PM
Trichloroethene	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904254

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Trichlorofluoromethane	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	4/21/2009 5:41:00 PM
Xylenes, Total	ND	5.00	µg/L	1	4/21/2009 5:41:00 PM
Surr: 1,2-Dichloroethane-d4	102	70-130	%REC	1	4/21/2009 5:41:00 PM
Surr: 4-Bromofluorobenzene	108	70-130	%REC	1	4/21/2009 5:41:00 PM
Surr: Dibromofluoromethane	93.1	70-130	%REC	1	4/21/2009 5:41:00 PM
Surr: Toluene-d8	106	70-130	%REC	1	4/21/2009 5:41:00 PM

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	0.260	0.100	mg/L	1	4/15/2009 8:00:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/23/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	0.199	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	54.3	1.50	mg/L	1	4/21/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.339	0.130	mg/L	1	5/7/2009
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	4/15/2009 9:52:00 AM
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	4/15/2009 8:30:00 AM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.271	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
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Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Eel River Watershed, Plymouth MA**Lab Order:** 0904254**TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR**Analyst: **RP**

Total Dissolved Nitrogen 0.73 0.39 mg/L 1 4/29/2009

TOTAL PHOSPHOROUS - L10-115-01-1EAnalyst: **RP**

Total Phosphorous ND 0.0400 mg/L 1 4/24/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904254

Lab ID: 0904254-003

Collection Date: 4/14/2009 12:40:00 PM

Client Sample ID: DW-1

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	103	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Copper	ND	0.0400		mg/L	1	Analyst: QS 4/15/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0370		mg/L	1	Analyst: QS 4/15/2009
Iron	1.89	0.0600		mg/L	1	4/15/2009
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	Analyst: EC 4/16/2009
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	Analyst: ZYZ 4/22/2009 4:07:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	4/22/2009 4:07:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	4/22/2009 4:07:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	4/22/2009 4:07:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	4/22/2009 4:07:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	4/22/2009 4:07:00 PM
2-Butanone	ND	10.0		µg/L	1	4/22/2009 4:07:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904254

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

2-Chloroethyl Vinyl Ether	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
2-Chlorotoluene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
2-Hexanone	ND	10.0	µg/L	1	4/22/2009 4:07:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Acetone	ND	50.0	µg/L	1	4/22/2009 4:07:00 PM
Acrolein	ND	50.0	µg/L	1	4/22/2009 4:07:00 PM
Acrylonitrile	ND	50.0	µg/L	1	4/22/2009 4:07:00 PM
Benzene	ND	1.00	µg/L	1	4/22/2009 4:07:00 PM
Bromobenzene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Bromochloromethane	ND	2.00	µg/L	1	4/22/2009 4:07:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	4/22/2009 4:07:00 PM
Bromoform	ND	2.00	µg/L	1	4/22/2009 4:07:00 PM
Bromomethane	ND	2.00	µg/L	1	4/22/2009 4:07:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	4/22/2009 4:07:00 PM
Chlorobenzene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Chloroethane	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Chloroform	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Chloromethane	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	4/22/2009 4:07:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	4/22/2009 4:07:00 PM
Dibromomethane	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Ethylbenzene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	4/22/2009 4:07:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Methylene Chloride	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Naphthalene	ND	20.0	µg/L	1	4/22/2009 4:07:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Styrene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Toluene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	4/22/2009 4:07:00 PM
Trichloroethene	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904254

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: ZYZ

Trichlorofluoromethane	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	4/22/2009 4:07:00 PM
Xylenes, Total	ND	5.00	µg/L	1	4/22/2009 4:07:00 PM
Surr: 1,2-Dichloroethane-d4	108	70-130	%REC	1	4/22/2009 4:07:00 PM
Surr: 4-Bromofluorobenzene	103	70-130	%REC	1	4/22/2009 4:07:00 PM
Surr: Dibromofluoromethane	97.1	70-130	%REC	1	4/22/2009 4:07:00 PM
Surr: Toluene-d8	99.1	70-130	%REC	1	4/22/2009 4:07:00 PM

NITRATE - SM4500-NO3-F

Analyst: SUB

Nitrate	0.280	0.100	mg/L	1	4/15/2009 8:00:00 PM
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NOTES:

Sample was analyzed at M-CT008.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0	mg/L	1	4/23/2009
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NOTES:

Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C

Analyst: RP

Ammonia (as N)	0.227	0.130	mg/L	1	4/24/2009
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	63.4	1.50	mg/L	1	4/21/2009
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.435	0.130	mg/L	1	5/7/2009
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	4/15/2009 9:52:00 AM
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	4/15/2009 8:30:00 AM
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.478	0.130	mg/L	1	4/29/2009
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

Particulate Organic Nitrogen	1.66	0.130	mg/L	1	5/6/2009
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Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Eel River Watershed, Plymouth MA

Lab Order: 0904254

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: **RP**

Total Dissolved Nitrogen	0.98	0.39	mg/L	1	4/29/2009
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: **RP**

Total Phosphorous	ND	0.0400	mg/L	1	4/24/2009
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Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
kmichaelis@townhall.plymouth.ma.us
Project Name: **Ground Water** - Eel River Watershed, Plymouth MA
Sampler: Kim Michaelis (KM), Patrick Farah (PF)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/14/09	1130	G-W-1	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
4/14/09	1225	A13	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

Ke 4/14/09 16:05

0904254

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis/
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198/
kmichaelis@townhall.plymouth.ma.us

Project Name: **Ground Water** - Eel River Watershed, Plymouth MA

Sampler: Kim Michaelis (KM), Patrick Farah (PF)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/14/09	1240	DW-1	1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	1 L Plastic	NH3, Total Phosphorus, PON	H2SO4
			1	250 mL Plastic	Copper, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	Boron, Iron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

Kc 4/14/09 16:05

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, January 12, 2010

Plymouth Environmental Management
ATTN Kim Michaelis
#11 Lincoln Stre Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/04/09 **Collection Time:** 1025

Sampled By: K. Michaelis

Lab Order Number: WW-92728

Date Received: 11/04/09

Sample Type	Sample Time	Sample Date	Comments			
A17 A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	73	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	1.0	0.5	11/12/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/14/09	RIA*	*
Total Iron	mg/L	<0.01	0.01	11/17/09	MC	200.7
Mercury*	mg/L	<0.0005	0.0005	11/11/09	RIA*	245.1
Boron	mg/L	0.012	0.010	11/18/09	MC	200.7
Copper	mg/L	0.003	0.003	11/17/09	MC	200.7
Nitrate-N	mg/L	2.05	0.01	11/04/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	11/04/09	LL	300.0
Ammonia-N *	mg/L	BRL	0.10	11/16/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.35	0.2	11/06/09	MC	SM4500 NH3 C
Chloride	mg/L	31.1	3.0	11/04/09	LL	300.0
Total Phos (P)	mg/L	0.027	0.005	11/06/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.2	11/06/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	1.0	0.5	11/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	2.15	0.2	11/16/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	0.25	0.2	11/16/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.024	0.005	11/06/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/12/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	2.40	0.2	11/16/09	Calculation	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Sadr
Laboratory Director

$$TN = DON(0.125) + PON(0.1) + NH_4(0.05) + NO_3(2.05) + NO_2(0.002) = 2.327$$

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
 Date Received: 11/5/09
 Work Order #: 0911-20514

Approved by: 

Data Reporting

Sample # 001
SAMPLE DESCRIPTION: WW-92728 A17
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/04/2009 @ 10:25

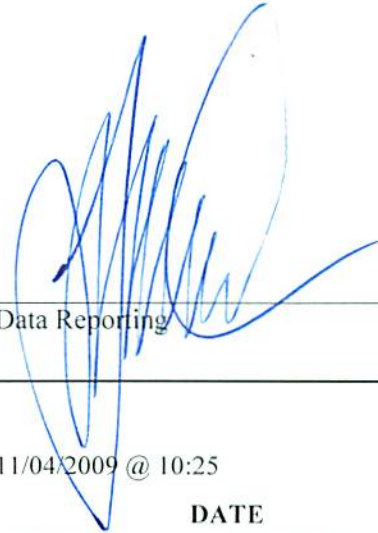
PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	11/16/09	KA
TOC Low Level	1.0	0.5	mg/l	SM 5310C	11/12/09	JJP
Dissolved TOC	1.0	0.5	mg/l	EPA 415.1	11/12/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/14/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dibromoethane(EDB)	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/14/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20514

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW-92728 A17

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/04/2009 @ 10:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/14/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/14/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/14/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/14/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/14/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/14/09	MMM
Surrogates			RANGE	SW-846 8260B	11/14/09	MMM
Dibromofluoromethane	118		86-118%	SW-846 8260B	11/14/09	MMM
Toluene-d8	109		88-110%	SW-846 8260B	11/14/09	MMM
4-Bromofluorobenzene	98		86-115%	SW-846 8260B	11/14/09	MMM
1,2 Dichloroethane-d4	101		80-120%	SW-846 8260B	11/14/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20514

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW-92728 A17

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/04/2009 @ 10:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	11/11/09	PJC

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, January 12, 2010

Plymouth Environmental Management
ATTN Kim Michaelis
#11 Lincoln St Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/04/09 **Collection Time:** 1310

Sampled By: K. Michealis

Lab Order Number: WW-92729

Date Received: 11/04/09

Sample Type	Sample Time	Sample Date	Comments			
A15 A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	96	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	1.1	0.5	11/12/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/14/09	RIA*	*
Total Iron	mg/L	0.28	0.01	11/18/09	MC	200.7
Mercury*	mg/L	<0.0005	0.0005	11/11/09	RIA*	245.1
Boron	mg/L	0.010	0.010	11/18/09	MC	200.7
Copper	mg/L	0.003	0.003	11/18/09	MC	200.7
Nitrate-N	mg/L	1.49	0.01	11/04/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	11/04/09	LL	300.0
Ammonia-N *	mg/L	BRL	0.10	11/16/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	11/06/09	MC	SM4500 NH3 C
Chloride	mg/L	31.3	3.0	11/04/09	LL	300.0
Total Phos (P)	mg/L	0.132	0.005	11/06/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.2	11/06/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	1.1	0.5	11/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	1.59	0.2	11/16/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	0.25	0.2	11/16/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.060	0.005	11/06/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/12/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	1.84	0.2	11/16/09	Calculation	Calculation

BRL=below reportable limits

*see attached

By: 

Ronald J. Saari
Laboratory Director

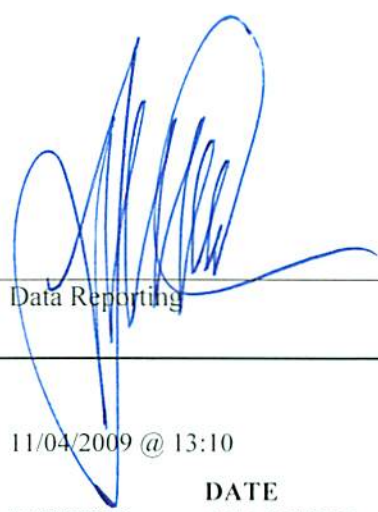
$$TN = DON(.25) + PON(.1) + NH_4(0.05) + NO_3(1.49) + NO_2(0.002) = 1.892$$

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20514

Approved by: 

Data Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92729 A15

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/04/2009 @ 13:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	11/16/09	KA
TOC Low Level	1.1	0.5	mg/l	SM 5310C	11/12/09	JJP
Dissolved TOC	1.1	0.5	mg/l	EPA 415.1	11/12/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/14/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dibromoethane(EDB)	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/14/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20514

Approved by: _____

Data Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92729 A15

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/04/2009 @ 13:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/14/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/14/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/14/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/14/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/14/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/14/09	MMM
Surrogates			RANGE	SW-846 8260B	11/14/09	MMM
Dibromofluoromethane	117		86-118%	SW-846 8260B	11/14/09	MMM
Toluene-d8	110		88-110%	SW-846 8260B	11/14/09	MMM
4-Bromofluorobenzene	105		86-115%	SW-846 8260B	11/14/09	MMM
1,2 Dichloroethane-d4	104		80-120%	SW-846 8260B	11/14/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20514

Approved by: 

Data Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92729 A15**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 11/04/2009 @ 13:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	11/11/09	PJC

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, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln St Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/04/09 **Collection Time:** 1405

Sampled By: K. Michealis

Lab Order Number: WW-92730

Date Received: 11/04/09

Sample Type	Sample Time	Sample Date	Comments			
5S A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	288	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	1.4	0.5	11/12/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/14/09	RIA*	*
Total Iron	mg/L	4.87	0.01	11/18/09	MC	200.7
Mercury*	mg/L	<0.0005	0.0005	11/11/09	RIA*	245.1
Boron	mg/L	0.020	0.010	11/18/09	MC	200.7
Copper	mg/L	BRL	0.003	11/18/09	MC	200.7
Nitrate-N	mg/L	0.34	0.01	11/04/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	11/04/09	LL	300.0
Ammonia-N *	mg/L	BRL	0.10	11/16/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	11/06/09	MC	SM4500 NH3 C
Chloride	mg/L	152	3.0	11/05/09	LL	300.0
Total Phos (P)	mg/L	1.12	0.005	11/06/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.2	11/06/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	1.3	0.5	11/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.44	0.2	11/16/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.027	0.005	11/06/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/12/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.62	0.2	11/16/09	Calculation	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Saari
 Laboratory Director

$$TN = DON (.1) + PON (.1) + NH_4 (0.05) + NO_3 (.34) + NO_2 (.002) = .592$$

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
 Date Received: 11/5/09
 Work Order #: 0911-20514

Approved by: 

Data Reporting

Sample # 003
SAMPLE DESCRIPTION: WW-92730 5S
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/04/2009 @ 14:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	11/16/09	KA
TOC Low Level	1.4	0.5	mg/l	SM 5310C	11/12/09	JJP
Dissolved TOC	1.3	0.5	mg/l	EPA 415.1	11/12/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/14/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
Chloroform	2	1	ug/l	SW-846 8260B	11/14/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dibromoethane(EDB)	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/14/09	MMM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20514

Approved by: _____

Data Reporting

Sample # 003

SAMPLE DESCRIPTION: WW-92730 5S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/04/2009 @ 14:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/14/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/14/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/14/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/14/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/14/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/14/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/14/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/14/09	MMM
Surrogates			RANGE	SW-846 8260B	11/14/09	MMM
Dibromofluoromethane	118		86-118%	SW-846 8260B	11/14/09	MMM
Toluene-d8	107		88-110%	SW-846 8260B	11/14/09	MMM
4-Bromofluorobenzene	98		86-115%	SW-846 8260B	11/14/09	MMM
1,2 Dichloroethane-d4	111		80-120%	SW-846 8260B	11/14/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20514

Approved by: _____

Data Reporting _____

Sample # 003

SAMPLE DESCRIPTION: WW-92730 5S

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/04/2009 @ 14:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	11/11/09	PJC

Laboratory:

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

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: GW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

11/4/09 1025 A17

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/4/09	1025	A17	2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE
11/4/09	1310	A15	2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE

11/4/09 1310 A15

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 Michaelis, 11/4/09

Received By: Date/Time:

P. Heavily, 11/04/09 1545

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: GW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

11/4/09 1405 SS

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/4/09	1405	SS	2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE
			2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	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

Kim Michaelis 11/4/09

Received By: Date/Time:

Blawie 11/04/09 1545

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, January 12, 2010

Plymouth Environmental Management
 ATTN Kim Michaelis
 #11 Lincoln St Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/03/09 **Collection Time:** 0945

Sampled By: K. Michaelis

Lab Order Number: WW-92705

Date Received: 11/03/09

Sample Type	Sample Time	Sample Date	Comments			
2SR A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	59	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	1.2	0.5	11/12/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/12/09	RIA*	*
Total Iron	mg/L	0.02	0.01	11/04/09	MC	200.7
Boron	mg/L	BRL	0.010	11/04/09	MC	200.7
Copper	mg/L	BRL	0.003	11/04/09	MC	200.7
Nitrate-N	mg/L	0.90	0.01	11/03/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	11/03/09	LL	300.0
Ammonia-N *	mg/L	BRL	0.10	11/16/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	BRL	0.2	11/06/09	MC	SM4500 NH3 C
Chloride	mg/L	22.9	3.0	11/03/09	LL	300.0
Total Phos (P)	mg/L	0.027	0.005	11/06/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.2	11/06/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	1.2	0.5	11/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	1.00	0.2	11/06/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	11/06/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.017	0.005	11/06/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/12/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	11/06/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	1.10	0.2	11/06/09	Calculation	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Saari
 Laboratory Director

$$TN = DON(0.1) + PON(0.1) + NH_4(0.05) + NO_3(0.90) + NO_2(0.002) = 1.152$$

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by: _____

Data Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92705 2 SR

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 09:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	11/16/09	KA
TOC Low Level	1.2	0.5	mg/l	SM 5310C	11/12/09	JJP
Dissolved TOC	1.2	0.5	mg/l	EPA 415.1	11/12/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/12/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dibromoethane (EDB)	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/12/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by: 

Data-Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92705 2 SR

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 09:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/12/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/12/09	MMM
Surrogates			RANGE	SW-846 8260B	11/12/09	MMM
Dibromofluoromethane	110		86-118%	SW-846 8260B	11/12/09	MMM
Toluene-d8	107		88-110%	SW-846 8260B	11/12/09	MMM
4-Bromofluorobenzene	94		86-115%	SW-846 8260B	11/12/09	MMM
1,2 Dichloroethane-d4	105		80-120%	SW-846 8260B	11/12/09	MMM

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, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln St Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/03/09 **Collection Time:** 1050

Sampled By: K. Michaelis

Lab Order Number: WW-92707

Date Received: 11/03/09

Sample Type	Sample Time	Sample Date	Comments			
DW-1 A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	124	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	2.4	0.5	11/12/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/12/09	RIA*	*
Total Iron	mg/L	12.1	0.01	11/04/09	MC	200.7
Mercury*	mg/L	<0.0005*	0.0005	11/11/09	RIA*	245.1
Boron	mg/L	0.038	0.010	11/04/09	MC	200.7
Copper	mg/L	BRL	0.003	11/04/09	MC	200.7
Nitrate-N	mg/L	BRL	0.01	11/03/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	11/03/09	LL	300.0
Ammonia-N *	mg/L	0.12	0.10	11/16/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	11/06/09	MC	SM4500 NH3 C
Chloride	mg/L	55.6	3.0	11/03/09	LL	300.0
Total Phos (P)	mg/L	0.115	0.005	11/06/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.2	11/06/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	2.4	0.5	11/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.012	0.005	11/06/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/12/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.22	0.2	11/16/09	Calculation	Calculation

BRL=below reportable limits

*see attached

by:

Ronald J. Saari
Laboratory Director

$$TN = DON(0.10) + PON(0.10) + NH_4(0.12) + NO_3(0.005) + NO_2(0.002) = 0.327$$

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by:

Data Reporting

Sample # 004

SAMPLE DESCRIPTION: WW-92707 DW-1

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	0.12	0.10	mg/l	SM 4500-NH3 C	11/16/09	KA
TOC Low Level	2.4	0.5	mg/l	SM 5310C	11/12/09	JJP
Dissolved TOC	2.4	0.5	mg/l	EPA 415.1	11/12/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/12/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dibromoethane (EDB)	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/12/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by: _____

Data Reporting

Sample # 004

SAMPLE DESCRIPTION: WW-92707 DW-1

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/12/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/12/09	MMM
Surrogates			RANGE	SW-846 8260B	11/12/09	MMM
Dibromofluoromethane	113		86-118%	SW-846 8260B	11/12/09	MMM
Toluene-d8	105		88-110%	SW-846 8260B	11/12/09	MMM
4-Bromofluorobenzene	95		86-115%	SW-846 8260B	11/12/09	MMM
1,2 Dichloroethane-d4	106		80-120%	SW-846 8260B	11/12/09	MMM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by: 

Data Reporting

Sample # 004

SAMPLE DESCRIPTION: WW-92707 DW-1

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 10:50

PARAMETER

SAMPLE
RESULTSDET.
LIMIT

UNITS

METHOD

DATE
ANALYZED

ANALYST

Total Metals

Mercury

<0.0005

0.0005

mg/l

EPA 245.1

11/11/09

PJC

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, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln Stre Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/03/09 **Collection Time:** 0800

Sampled By: K. Michaelis

Lab Order Number: WW-92704

Date Received: 11/03/09

Sample Type	Sample Time	Sample Date	Comments			
GW-1 A			**Acetone			
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	194	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	1.1	0.5	11/12/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	12**	*	11/12/09	RIA*	*
Total Iron	mg/L	0.01	0.01	11/04/09	MC	200.7
Mercury*	mg/L	<0.0005	0.0005	11/11/09	RIA*	245.1
Boron	mg/L	0.018	0.010	11/04/09	MC	200.7
Copper	mg/L	BRL	0.003	11/04/09	MC	200.7
Nitrate-N	mg/L	0.16	0.01	11/03/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	11/03/09	LL	300.0
Ammonia-N *	mg/L	BRL	0.10	11/16/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	BRL	0.2	11/09/09	MC	SM4500 NH3 C
Chloride	mg/L	65.6	3.0	11/03/09	LL	300.0
Total Phos (P)	mg/L	0.056	0.005	11/06/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.2	11/03/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	1.0	0.5	11/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.26	0.2	11/09/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	11/09/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.040	0.005	11/06/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/12/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	11/09/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.36	0.2	11/09/09	Calculation	Calculation

BRL=below reportable limits

*see attached

by: 

Ronald J. Sauri
Laboratory Director

$$TN = DON(0.1) + PON(0.1) + NH_4(0.05) + NO_3(0.16) + NO_2(0.002) = 0.412$$

CERTIFICATE OF ANALYSIS

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

Date Received: 11/5/09
Date Reported: 11/17/09
P.O. #:
Work Order #: 0911-20521

DESCRIPTION: PLYMOUTH ENV.

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

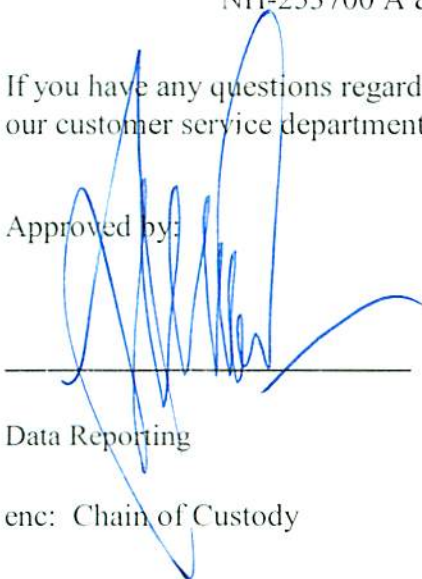
Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
 Date Received: 11/5/09
 Work Order #: 0911-20521

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW-92704 GW-1

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 08:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	11/16/09	KA
TOC Low Level	1.1	0.5	mg/l	SM 5310C	11/12/09	JJP
Dissolved TOC	1.0	0.5	mg/l	EPA 415.1	11/12/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/12/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dibromoethane (EDB)	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/12/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by: _____

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW-92704 GW-1

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 08:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Acetone	12	10	ug/l	SW-846 8260B	11/12/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/12/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/12/09	MMM
Surrogates			RANGE	SW-846 8260B	11/12/09	MMM
Dibromofluoromethane	110		86-118%	SW-846 8260B	11/12/09	MMM
Toluene-d8	105		88-110%	SW-846 8260B	11/12/09	MMM
4-Bromofluorobenzene	96		86-115%	SW-846 8260B	11/12/09	MMM
1,2 Dichloroethane-d4	105		80-120%	SW-846 8260B	11/12/09	MMM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW-92704 GW-1

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 08:00

PARAMETER

SAMPLE
RESULTSDET.
LIMIT

UNITS

METHOD

DATE
ANALYZED

ANALYST

Total Metals

Mercury

<0.0005

0.0005

mg/l

EPA 245.1

11/11/09

PJC

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, January 12, 2010

Plymouth Environmental Management
ATTN Kim Michaelis
#11 Lincoln Stre Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/03/09 **Collection Time:** 1040

Sampled By: K. Michaelis

Lab Order Number: WW-92706

Date Received: 11/03/09

Sample Type	Sample Time	Sample Date	Comments			
2DR A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	116	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	2.2	0.5	11/12/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/12/09	RIA*	*
Total Iron	mg/L	11.6	0.01	11/04/09	MC	200.7
Boron	mg/L	0.036	0.010	11/04/09	MC	200.7
Copper	mg/L	BRL	0.003	11/04/09	MC	200.7
Nitrate-N	mg/L	BRL	0.01	11/03/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	11/03/09	LL	300.0
Ammonia-N *	mg/L	0.10	0.10	11/16/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	BRL	0.2	11/06/09	MC	SM4500 NH3 C
Chloride	mg/L	55.4	3.0	11/03/09	LL	300.0
Total Phos (P)	mg/L	0.157	0.005	11/06/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.2	11/06/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	2.2	0.5	11/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.019	0.005	11/06/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/12/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.21	0.2	11/16/09	Calculation	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Sauri
Laboratory Director

$$TN = \text{DON}(0.10) + \text{PON}(0.10) + \text{NH}_4(0.10) + \text{NO}_3(0.005) + \text{NO}_2(0.002) = 0.307$$

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by: _____

Data Reporting _____

Sample # 003

SAMPLE DESCRIPTION: WW-92706 2 DR

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	0.10	0.10	mg/l	SM 4500-NH3 C	11/16/09	KA
TOC Low Level	2.2	0.5	mg/l	SM 5310C	11/12/09	JJP
Dissolved TOC	2.2	0.5	mg/l	EPA 415.1	11/12/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/12/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dibromoethane(EDB)	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/12/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by: 

Data Reporting

Sample # 003

SAMPLE DESCRIPTION: WW-92706 2 DR

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/12/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/12/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/12/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/12/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/12/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/12/09	MMM
Surrogates			RANGE	SW-846 8260B	11/12/09	MMM
Dibromofluoromethane	111		86-118%	SW-846 8260B	11/12/09	MMM
Toluene-d8	103		88-110%	SW-846 8260B	11/12/09	MMM
4-Bromofluorobenzene	95		86-115%	SW-846 8260B	11/12/09	MMM
1,2 Dichloroethane-d4	106		80-120%	SW-846 8260B	11/12/09	MMM

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, January 12, 2010

Plymouth Environmental Management
ATTN Kim Michaelis
#11 Lincoln Stre Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/03/09 **Collection Time:** 1225

Sampled By: K. Michaelis

Lab Order Number: WW-92708

Date Received: 11/03/09

Sample Type	Sample Time	Sample Date	Comments			
A21 A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	83	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	1.6	0.5	11/12/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/13/09	RIA*	*
Total Iron	mg/L	3.06	0.01	11/04/09	MC	200.7
Mercury*	mg/L	<0.0005	0.0005	11/11/09	RIA*	245.1
Boron	mg/L	0.015	0.010	11/04/09	MC	200.7
Copper	mg/L	BRL	0.003	11/04/09	MC	200.7
Nitrate-N	mg/L	0.04	0.01	11/03/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	11/03/09	LL	300.0
Ammonia-N *	mg/L	0.38	0.10	11/16/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	11/06/09	MC	SM4500 NH3 C
Chloride	mg/L	22.9	3.0	11/03/09	LL	300.0
Total Phos (P)	mg/L	0.049	0.005	11/06/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.42	0.2	11/06/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	1.6	0.5	11/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.42	0.2	11/16/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.017	0.005	11/06/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/12/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	11/16/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.46	0.2	11/16/09	Calculation	Calculation

BRL=below reportable limits

*see attached

By: 
Ronald J. Satri
Laboratory Director

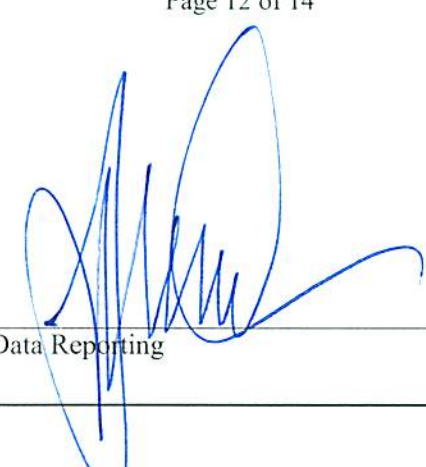
$$TN = DON(0.10) + PON(0.10) + NH_4(0.38) + NO_3(0.04) + NO_2(0.002) = 0.622$$

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by: 

Data Reporting

Sample # 005

SAMPLE DESCRIPTION: WW-92708 A 21

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 12:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	0.38	0.10	mg/l	SM 4500-NH3 C	11/16/09	KA
TOC Low Level	1.6	0.5	mg/l	SM 5310C	11/12/09	JJP
Dissolved TOC	1.6	0.5	mg/l	EPA 415.1	11/12/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/13/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/13/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/13/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/13/09	MMM
1,2-Dibromoethane(EDB)	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/13/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/13/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/12/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by:

Data Reporting

Sample # 005

SAMPLE DESCRIPTION: WW-92708 A 21

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 12:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/13/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/13/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/13/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/13/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/13/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/13/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/13/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/13/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/13/09	MMM
Surrogates			RANGE	SW-846 8260B	11/12/09	MMM
Dibromofluoromethane	108		86-118%	SW-846 8260B	11/13/09	MMM
Toluene-d8	109		88-110%	SW-846 8260B	11/13/09	MMM
4-Bromofluorobenzene	97		86-115%	SW-846 8260B	11/13/09	MMM
1,2 Dichloroethane-d4	99		80-120%	SW-846 8260B	11/13/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/5/09

Work Order #: 0911-20521

Approved by: 

Data Reporting

Sample # 005

SAMPLE DESCRIPTION: WW-92708 A 21

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/03/2009 @ 12:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	11/11/09	PJC

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: GW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

WW-92704
①

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/3/09	0800	GW-1	2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE
11/3/09	0945	2SR	2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE

WW-92705
①

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 Michaelis 11/3/09

Received By: Date/Time:

[Signature] 11/3 3:00
[Signature] 11/3 1530

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: GW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

NW-92706

①

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/3	1040	202	2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu , Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE
11/3	1050	DW-1	2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE

NW-92707

②

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 Michaelis 11/3/09

Received By:

Date/Time:

[Signature] 11/3 3:20
[Signature] 11/3 1530

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: GW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

NW-92708

①

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/3/09	1225	A21	2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE
			2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	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

Kim Michaelis 11/3/09

Received By:

Date/Time:

[Signature] 11/3 3:00
J. Savatky 11/3 1530

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, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln Stre Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/02/09 **Collection Time:** 1115

Sampled By: K. Michaelis

Lab Order Number: WW-92692

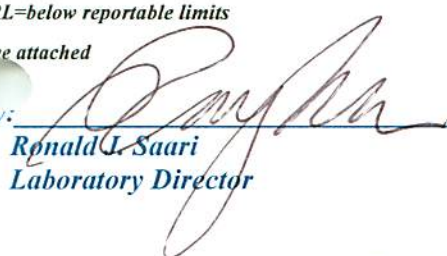
Date Received: 11/03/09

Sample Type	Sample Time	Sample Date	Comments			
7RS A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	263	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	0.56	0.5	11/11/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/06/09	RIA*	*
Total Iron	mg/L	0.010	0.01	11/17/09	MC	200.7
Mercury*	mg/L	<0.0005*	0.0005	11/04/09	RIA*	245.1
Boron	mg/L	BRL	0.010	11/17/09	MC	200.7
Copper	mg/L	BRL	0.003	11/17/09	MC	200.7
Nitrate-N _{NO3}	mg/L	0.16	0.01	11/03/09	LL	300.0
Nitrite-N _{NO2}	mg/L	BRL	0.004	11/03/09	LL	300.0
Ammonia-N *	mg/L	0.23	0.10	11/06/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.23	0.2	11/03/09	MC	SM4500 NH3 C
Chloride	mg/L	142	3.0	11/03/09	LL	300.0
Total Phos (P)	mg/L	0.021	0.005	11/05/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.23	0.2	11/09/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	BRL	0.5	11/11/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.35	0.2	11/06/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	11/06/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.011	0.005	11/05/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/11/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	11/06/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.36	0.2	11/06/09	Calculation	Calculation

BRL=below reportable limits

*see attached

By:


Ronald J. Saari
Laboratory Director

$$TN = DON(0.10) + PON(0.10) + NH_4(0.23) + NO_3(0.16) + NO_2(0.002) = 0.592$$

CERTIFICATE OF ANALYSIS

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

Date Received: 11/3/09
Date Reported: 11/11/09
P.O. #:
Work Order #: 0911-20271

DESCRIPTION: PLYMOUTH ENV.

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

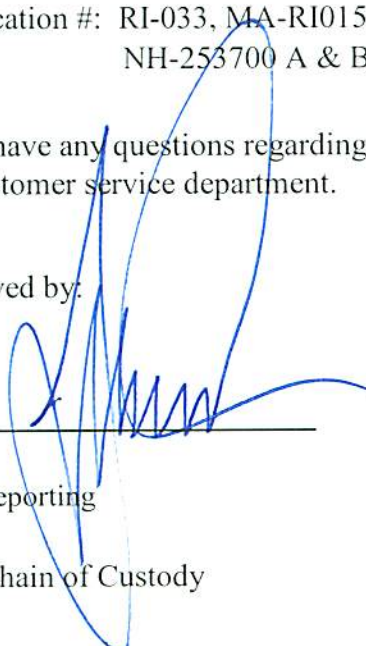
Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/3/09

Work Order #: 0911-20271

Approved by: _____

Data Reporting _____

Sample # 001

SAMPLE DESCRIPTION: WW-92692 7SR

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 11:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	0.23	0.10	mg/l	SM 4500-NH3 C	11/6/09	KA
TOC Low Level	0.56	0.5	mg/l	SM 5310C	11/11/09	JJP
Dissolved TOC	<0.5	0.5	mg/l	EPA 415.1	11/11/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/6/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dibromoethane(EDB)	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/6/09	MMM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/3/09

Work Order #: 0911-20271

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW-92692 7SR

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 11:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/6/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/6/09	MMM
Surrogates			RANGE	SW-846 8260B	11/6/09	MMM
Dibromofluoromethane	97		86-118%	SW-846 8260B	11/6/09	MMM
Toluene-d8	100		88-110%	SW-846 8260B	11/6/09	MMM
4-Bromofluorobenzene	98		86-115%	SW-846 8260B	11/6/09	MMM
1,2 Dichloroethane-d4	97		80-120%	SW-846 8260B	11/6/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
Date Received: 11/3/09
Work Order #: 0911-20271

Approved by: _____

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW-92692 7SR

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 11:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	11/4/09	PJC

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, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln Stre Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/02/09 **Collection Time:** 1320

Sampled By: K. Michaelis

Lab Order Number: WW-92693

Date Received: 11/03/09

Sample Type	Sample Time	Sample Date	Comments			
A13 A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	247	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	1.3	0.5	11/11/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/06/09	RIA*	*
Total Iron	mg/L	7.09	0.01	11/04/09	MC	200.7
Mercury*	mg/L	<0.0005	0.0005	11/04/09	RIA*	245.1
Boron	mg/L	0.013	0.010	11/04/09	MC	200.7
Copper	mg/L	BRL	0.003	11/04/09	MC	200.7
Nitrate-N	mg/L	0.28	0.01	11/03/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	11/03/09	LL	300.0
Ammonia-N *	mg/L	0.40	0.10	11/06/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.70	0.2	11/03/09	MC	SM4500 NH3 C
Chloride	mg/L	127	3.0	11/03/09	LL	300.0
Total Phos (P)	mg/L	0.055	0.005	11/05/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.49	0.2	11/09/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	1.1	0.5	11/11/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.68	0.2	11/06/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	11/06/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.035	0.005	11/05/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/11/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	0.2	11/06/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.77	0.2	11/06/09	Calculation	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Saari

Laboratory Director

$$TN = DON(0.10) + PON(0.20) + NH_4(0.49) + NO_3(0.28) + NO_2(0.002) = 0.982$$

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/3/09

Work Order #: 0911-20271

Approved by:

Data Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92693 A13

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	0.40	0.10	mg/l	SM 4500-NH3 C	11/6/09	KA
TOC Low Level	1.3	0.5	mg/l	SM 5310C	11/11/09	JJP
Dissolved TOC	1.1	0.5	mg/l	EPA 415.1	11/11/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/6/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dibromoethane(EDB)	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/6/09	MMM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/3/09

Work Order #: 0911-20271

Approved by:

Data Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92693 A13

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/6/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/6/09	MMM
Surrogates			RANGE	SW-846 8260B	11/6/09	MMM
Dibromofluoromethane	96		86-118%	SW-846 8260B	11/6/09	MMM
Toluene-d8	101		88-110%	SW-846 8260B	11/6/09	MMM
4-Bromofluorobenzene	99		86-115%	SW-846 8260B	11/6/09	MMM
1,2 Dichloroethane-d4	98		80-120%	SW-846 8260B	11/6/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
Date Received: 11/3/09
Work Order #: 0911-20271

Approved by: 

Data Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92693 A13

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	11/4/09	PJC

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: GW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

WW-92692
①

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/2/09	1115	752	2	Glass Vial	VOC 8260	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE
11/2/09	1320	A13	2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE

WW-92693
①

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 Michaelis 11/2/09

[Signature] 11/3 930

Received By: Date/Time:

[Signature] 11/3 9:00
[Signature] 11/03/09 0930

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, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln Stre Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/02/09 **Collection Time:** 1115

Sampled By: K. Michaelis

Lab Order Number: WW-92692

Date Received: 11/03/09

Sample Type	Sample Time	Sample Date	Comments			
7RS A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	263	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	0.56	0.5	11/11/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/06/09	RIA*	*
Total Iron	mg/L	0.010	0.01	11/17/09	MC	200.7
Mercury*	mg/L	<0.0005*	0.0005	11/04/09	RIA*	245.1
Boron	mg/L	BRL	0.010	11/17/09	MC	200.7
Copper	mg/L	BRL	0.003	11/17/09	MC	200.7
Nitrate-N NO_3	mg/L	0.16	0.01	11/03/09	LL	300.0
Nitrite-N NO_2	mg/L	BRL	0.004	11/03/09	LL	300.0
Ammonia-N *	mg/L	0.23	0.10	11/06/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.23	0.2	11/03/09	MC	SM4500 NH3 C
Chloride	mg/L	142	3.0	11/03/09	LL	300.0
Total Phos (P)	mg/L	0.021	0.005	11/05/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.23	0.2	11/09/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	BRL	0.5	11/11/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.35	0.2	11/06/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	11/06/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.011	0.005	11/05/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/11/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	11/06/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.36	0.2	11/06/09	Calculation	Calculation

BRL=below reportable limits

*see attached

by:

Ronald J. Saari
 Laboratory Director

$$TN = DON(0.10) + PON(0.10) + NH_4(0.23) + NO_3(0.16) + NO_2(0.002) = 0.592$$

CERTIFICATE OF ANALYSIS

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

Date Received: 11/3/09
Date Reported: 11/11/09
P.O. #:
Work Order #: 0911-20271

DESCRIPTION: PLYMOUTH ENV.

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

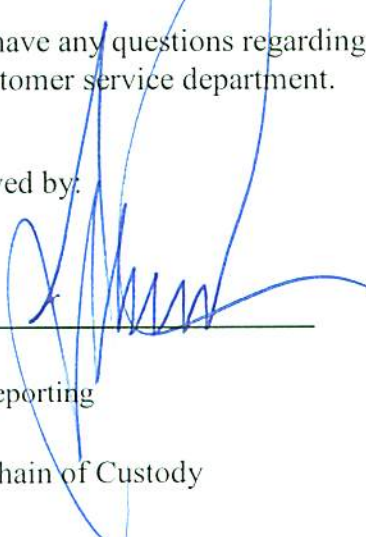
Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/3/09

Work Order #: 0911-20271

Approved by: _____

Data Reporting _____

Sample # 001

SAMPLE DESCRIPTION: WW-92692 7SR

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 11:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	0.23	0.10	mg/l	SM 4500-NH3 C	11/6/09	KA
TOC Low Level	0.56	0.5	mg/l	SM 5310C	11/11/09	JJP
Dissolved TOC	<0.5	0.5	mg/l	EPA 415.1	11/11/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/6/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dibromoethane(EDB)	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/6/09	MMM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/3/09

Work Order #: 0911-20271

Approved by: _____

Data Reporting _____

Sample # 001

SAMPLE DESCRIPTION: WW-92692 7SR

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 11:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
2-Butanone(MEK)	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
4-Methyl-2-pentanone(MIBK)	<50	50	ug/l	SW-846 8260B	11/6/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/6/09	MMM
Surrogates			RANGE	SW-846 8260B	11/6/09	MMM
Dibromofluoromethane	97		86-118%	SW-846 8260B	11/6/09	MMM
Toluene-d8	100		88-110%	SW-846 8260B	11/6/09	MMM
4-Bromofluorobenzene	98		86-115%	SW-846 8260B	11/6/09	MMM
1,2 Dichloroethane-d4	97		80-120%	SW-846 8260B	11/6/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/3/09

Work Order #: 0911-20271

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW-92692 7SR**SAMPLE TYPE:** GRAB**SAMPLE DATE/TIME:** 11/02/2009 @ 11:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	11/4/09	PJC

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, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln St Plymouth ext. 198

ProjectName: GW Eel River

Comments:

Project Number:

Collection Date: 11/02/09 **Collection Time:** 1320

Sampled By: K. Michaelis

Lab Order Number: WW-92693

Date Received: 11/03/09

Sample Type	Sample Time	Sample Date	Comments			
A13 A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	247	6.0	11/16/09	MC	2540 C
Total Organic Carbon*	mg/L	1.3	0.5	11/11/09	RIA*	SM 5310 C
Volatile Organic Compounds*	ug/L	ND	*	11/06/09	RIA*	*
Total Iron	mg/L	7.09	0.01	11/04/09	MC	200.7
Mercury*	mg/L	<0.0005	0.0005	11/04/09	RIA*	245.1
Boron	mg/L	0.013	0.010	11/04/09	MC	200.7
Copper	mg/L	BRL	0.003	11/04/09	MC	200.7
Nitrate-N	mg/L	0.28	0.01	11/03/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	11/03/09	LL	300.0
Ammonia-N *	mg/L	0.40	0.10	11/06/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.70	0.2	11/03/09	MC	SM4500 NH3 C
Chloride	mg/L	127	3.0	11/03/09	LL	300.0
Total Phos (P)	mg/L	0.055	0.005	11/05/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.49	0.2	11/09/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	1.1	0.5	11/11/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.68	0.2	11/06/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	11/06/09	Calculation	Calculation
Ortho Phos (P)	mg/L	0.035	0.005	11/05/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	11/11/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	0.2	11/06/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.77	0.2	11/06/09	Calculation	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Saari
 Laboratory Director

$$TN = DON(0.10) + PON(0.20) + NH_4(0.49) + NO_3(0.28) + NO_2(0.002) = 0.982$$

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/3/09

Work Order #: 0911-20271

Approved by:

Data Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92693 A13

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	0.40	0.10	mg/l	SM 4500-NH3 C	11/6/09	KA
TOC Low Level	1.3	0.5	mg/l	SM 5310C	11/11/09	JJP
Dissolved TOC	1.1	0.5	mg/l	EPA 415.1	11/11/09	JJP
Volatile Organic Compounds						
Benzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromochloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromodichloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromoform	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Bromomethane	<7	7	ug/l	SW-846 8260B	11/6/09	MMM
n-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Sec-butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
tert-Butylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Carbon Tetrachloride	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chloroethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Chloroform	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Chloromethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
2-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
4-Chlorotoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dibromochloromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dibromo-3-Chloropropane	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dibromoethane (EDB)	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dibromomethane	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,4-Dichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Dichlorodifluoromethane	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
cis-1,2-Dichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
trans-1,2-Dichloroethylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
2,2-Dichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3-Dichloropropene (total)	<1	1	ug/l	SW-846 8260B	11/6/09	MMM

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 11/3/09

Work Order #: 0911-20271

Approved by:

Data Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92693 A13

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Hexachlorobutadiene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Isopropylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
p-Isopropyltoluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Methylene Chloride	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Naphthalene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
n-Propylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Styrene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,1,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,2,2-Tetrachloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Tetrachloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Toluene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,3-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,4-Trichlorobenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,1-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,1,2-Trichloroethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Trichloroethene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Trichlorofluoromethane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,3-Trichloropropane	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,2,4-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
1,3,5-Trimethylbenzene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Vinyl Chloride	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
o-Xylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
m,p-Xylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Methyl Tertiary Butyl Ether (MTBE)	<2	2	ug/l	SW-846 8260B	11/6/09	MMM
Carbon Disulfide	<5	5	ug/l	SW-846 8260B	11/6/09	MMM
Acetone	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
2-Butanone (MEK)	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
4-Methyl-2-pentanone (MIBK)	<50	50	ug/l	SW-846 8260B	11/6/09	MMM
2-Hexanone	<10	10	ug/l	SW-846 8260B	11/6/09	MMM
cis-1,3-Dichloropropene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
trans-1,3-Dichloropropylene	<1	1	ug/l	SW-846 8260B	11/6/09	MMM
Vinyl Acetate	<50	50	ug/l	SW-846 8260B	11/6/09	MMM
Surrogates			RANGE	SW-846 8260B	11/6/09	MMM
Dibromofluoromethane	96		86-118%	SW-846 8260B	11/6/09	MMM
Toluene-d8	101		88-110%	SW-846 8260B	11/6/09	MMM
4-Bromofluorobenzene	99		86-115%	SW-846 8260B	11/6/09	MMM
1,2 Dichloroethane-d4	98		80-120%	SW-846 8260B	11/6/09	MMM

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
Date Received: 11/3/09
Work Order #: 0911-20271

Approved by: 

Data Reporting

Sample # 002

SAMPLE DESCRIPTION: WW-92693 A13

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 11/02/2009 @ 13:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Total Metals						
Mercury	<0.0005	0.0005	mg/l	EPA 245.1	11/4/09	PJC

Laboratory:

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

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: GW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

WW-92692
①

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/2/09	1115	752	2	Glass Vial	VOC 8260	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE
11/2/09	1320	A13	2	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride, Cu, Iron, Mercury	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho Phosphate	NONE

WW-92693
①

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 Michaelis 11/2/09

[Signature] 11/3 930

Received By: Date/Time:

[Signature] 11/3 9:00
[Signature] 11/03/09 0930

ANALYTICAL REPORT

Friday, June 19, 2009

Kim Michaelis
Town of Plymouth
11 Lincoln Street
Plymouth, MA 02360

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
Fax: 781 848 7811

TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Surface Water - Eel River, Plymouth MA
Location:

Order No.: 0904231

Dear Kim Michaelis:

GeoLabs, Inc. received 10 sample(s) on 4/13/2009 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. All data for associated QC method or laboratory specifications, except when noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Charles Morrow
Laboratory Director

For current certifications, please visit our website at www.geolabs.com

Certifications:

CT (PH-0148) - MA (M-MA015) - NH (2508) - NJ (MA009) - NY (11796) - RI (LA000252)
Accredited in Accordance with NELAC

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

Lab ID: 0904231-001

Collection Date: 4/13/2009 12:15:00 PM

Client Sample ID: S-1

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	67.0	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/14/2009
CHLOROPHYLL - A						
Chlorophyll a	6.33	0.500		mg/m ³	1	Analyst: SUB 4/15/2009
NOTES: Sample was analyzed at M-MA003.						
NITRATE - SM4500-NO3-F						
Nitrate	0.450	0.100		mg/L	1	Analyst: SUB 4/14/2009 8:31:00 PM
NOTES: Sample was analyzed at M-CT008.						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 4/23/2009
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	0.227	0.130		mg/L	1	Analyst: RP 4/24/2009
CHLORIDE - L-10-177-07-1-B						
Chloride	41.9	1.50		mg/L	1	Analyst: RP 4/21/2009
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.572	0.130		mg/L	1	Analyst: RP 5/7/2009
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 4/15/2009
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: RP 4/15/2009 8:30:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.344	0.130	mg/L	1	4/29/2009	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	1.0	0.39	mg/L	1	4/29/2009	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	4/24/2009	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

Lab ID: 0904231-002

Collection Date: 4/13/2009 12:45:00 PM

Client Sample ID: S-9A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	74.0	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/14/2009
CHLOROPHYLL - A						
Chlorophyll a	1.95	0.500		mg/m³	1	Analyst: SUB 4/15/2009
NOTES: Sample was analyzed at M-MA003.						
NITRATE - SM4500-NO3-F						
Nitrate	0.530	0.100		mg/L	1	Analyst: SUB 4/14/2009 8:39:00 PM
NOTES: Sample was analyzed at M-CT008.						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 4/23/2009
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	0.144	0.130		mg/L	1	Analyst: RP 4/24/2009
CHLORIDE - L-10-177-07-1-B						
Chloride	48.5	1.50		mg/L	1	Analyst: RP 4/21/2009
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.767	0.130		mg/L	1	Analyst: RP 5/7/2009
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 4/15/2009
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: RP 4/15/2009 8:30:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA**Lab Order:** 0904231

DON - SM4500-NORG-B,C, SM4500-NH3-B,C					Analyst: RP
Dissolved Organic Nitrogen	0.466	0.130	mg/L	1	4/29/2009
PON-SM4500-NH3-B,C, SM4500-NORG-B,C					Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR					Analyst: RP
Total Dissolved Nitrogen	1.1	0.39	mg/L	1	4/29/2009
TOTAL PHOSPHOROUS - L10-115-01-1E					Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	4/24/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

Lab ID: 0904231-003

Collection Date: 4/13/2009 11:40:00 AM

Client Sample ID: S-3A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	72.0	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/14/2009
CHLOROPHYLL - A						
Chlorophyll a	3.81	0.500		mg/m ³	1	Analyst: SUB 4/15/2009
NOTES: Sample was analyzed at M-MA003.						
NITRATE - SM4500-NO3-F						
Nitrate	0.420	0.100		mg/L	1	Analyst: SUB 4/14/2009 8:40:00 PM
NOTES: Sample was analyzed at M-CT008.						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 4/23/2009
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	0.161	0.130		mg/L	1	Analyst: RP 4/24/2009
CHLORIDE - L-10-177-07-1-B						
Chloride	22.5	1.50		mg/L	1	Analyst: RP 4/21/2009
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.597	0.130		mg/L	1	Analyst: RP 5/7/2009
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 4/15/2009
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: RP 4/15/2009 8:30:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA**Lab Order:** 0904231**DON - SM4500-NORG-B,C, SM4500-NH3-B,C**

Dissolved Organic Nitrogen	0.460	0.130	mg/L	1	4/29/2009	Analyst: RP
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009	Analyst: RP
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Total Dissolved Nitrogen	1.0	0.39	mg/L	1	4/29/2009	Analyst: RP
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TOTAL PHOSPHOROUS - L10-115-01-1E

Total Phosphorous	ND	0.0400	mg/L	1	4/24/2009	Analyst: RP
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Qualifiers:
B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limitsBRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit**GeoLabs, Inc.**

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

Lab ID: 0904231-004

Collection Date: 4/13/2009 11:50:00 AM

Client Sample ID: S-2B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	41.0	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/14/2009
CHLOROPHYLL - A						
Chlorophyll a	10.3	0.500		mg/m ³	1	Analyst: SUB 4/15/2009
NOTES: Sample was analyzed at M-MA003.						
NITRATE - SM4500-NO3-F						
Nitrate	0.390	0.100		mg/L	1	Analyst: SUB 4/14/2009 8:41:00 PM
NOTES: Sample was analyzed at M-CT008.						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 4/23/2009
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	0.432	0.130		mg/L	1	Analyst: RP 4/24/2009
CHLORIDE - L-10-177-07-1-B						
Chloride	19.3	1.50		mg/L	1	Analyst: RP 4/21/2009
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.627	0.130		mg/L	1	Analyst: RP 5/7/2009
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 4/15/2009
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: RP 4/15/2009 8:30:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA**Lab Order:** 0904231

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	ND	0.130	mg/L	1	4/29/2009	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.93	0.39	mg/L	1	4/29/2009	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	4/24/2009	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

Lab ID: 0904231-005

Collection Date: 4/13/2009 11:20:00 AM

Client Sample ID: S-8A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	21.0	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/14/2009
CHLOROPHYLL - A						
Chlorophyll a	3.22	0.500		mg/m ³	1	Analyst: SUB 4/15/2009
NOTES: Sample was analyzed at M-MA003.						
NITRATE - SM4500-NO3-F						
Nitrate	0.110	0.100		mg/L	1	Analyst: SUB 4/14/2009 8:42:00 PM
NOTES: Sample was analyzed at M-CT008.						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 4/23/2009
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	0.155	0.130		mg/L	1	Analyst: RP 4/24/2009
CHLORIDE - L-10-177-07-1-B						
Chloride	23.1	1.50		mg/L	1	Analyst: RP 4/21/2009
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.325	0.130		mg/L	1	Analyst: RP 5/7/2009
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 4/15/2009
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: RP 4/15/2009 8:30:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA**Lab Order:** 0904231

DON - SM4500-NORG-B,C, SM4500-NH3-B,C					Analyst: RP
Dissolved Organic Nitrogen	0.360	0.130	mg/L	1	4/29/2009
PON-SM4500-NH3-B,C, SM4500-NORG-B,C					Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR					Analyst: RP
Total Dissolved Nitrogen	0.62	0.39	mg/L	1	4/29/2009
TOTAL PHOSPHOROUS - L10-115-01-1E					Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	4/24/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	F	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

Lab ID: 0904231-006

Collection Date: 4/13/2009 11:30:00 AM

Client Sample ID: S-4A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	40.0	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/14/2009
CHLOROPHYLL - A						
Chlorophyll a	4.11	0.500		mg/m ³	1	Analyst: SUB 4/15/2009
NOTES: Sample was analyzed at M-MA003.						
NITRATE - SM4500-NO3-F						
Nitrate	0.110	0.100		mg/L	1	Analyst: SUB 4/14/2009 8:43:00 PM
NOTES: Sample was analyzed at M-CT008.						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 4/23/2009
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	0.166	0.130		mg/L	1	Analyst: RP 4/24/2009
CHLORIDE - L-10-177-07-1-B						
Chloride	22.7	1.50		mg/L	1	Analyst: RP 4/21/2009
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.380	0.130		mg/L	1	Analyst: RP 5/7/2009
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 4/15/2009
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: RP 4/15/2009 8:30:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA**Lab Order:** 0904231

DON - SM4500-NORG-B,C, SM4500-NH3-B,C					Analyst: RP
Dissolved Organic Nitrogen	0.433	0.130	mg/L	1	4/29/2009
PON-SM4500-NH3-B,C, SM4500-NORG-B,C					Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR					Analyst: RP
Total Dissolved Nitrogen	0.71	0.39	mg/L	1	4/29/2009
TOTAL PHOSPHOROUS - L10-115-01-1E					Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	4/24/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

Lab ID: 0904231-007

Collection Date: 4/13/2009 11:00:00 AM

Client Sample ID: S-8B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	173	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/14/2009
CHLOROPHYLL - A						
Chlorophyll a	8.05	0.500		mg/m ³	1	Analyst: SUB 4/15/2009
NOTES: Sample was analyzed at M-MA003.						
NITRATE - SM4500-NO3-F						
Nitrate	0.160	0.100		mg/L	1	Analyst: SUB 4/14/2009 8:45:00 PM
NOTES: Sample was analyzed at M-CT008.						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 4/23/2009
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	0.133	0.130		mg/L	1	Analyst: RP 4/24/2009
CHLORIDE - L-10-177-07-1-B						
Chloride	61.6	1.50		mg/L	1	Analyst: RP 4/21/2009
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.364	0.130		mg/L	1	Analyst: RP 5/7/2009
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 4/15/2009
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: RP 4/15/2009 8:30:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA**Lab Order:** 0904231

DON - SM4500-NORG-B,C, SM4500-NH3-B,C					Analyst: RP
Dissolved Organic Nitrogen	0.337	0.130	mg/L	1	4/29/2009
PON-SM4500-NH3-B,C, SM4500-NORG-B,C					Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR					Analyst: RP
Total Dissolved Nitrogen	0.63	0.39	mg/L	1	4/29/2009
TOTAL PHOSPHOROUS - L10-115-01-1E					Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	4/24/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

Lab ID: 0904231-008

Collection Date: 4/13/2009 11:10:00 AM

Client Sample ID: S-5B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	50.0	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/14/2009
CHLOROPHYLL - A						
Chlorophyll a	2.93	0.500		mg/m ³	1	Analyst: SUB 4/15/2009
NOTES: Sample was analyzed at M-MA003.						
NITRATE - SM4500-NO3-F						
Nitrate	0.290	0.100		mg/L	1	Analyst: SUB 4/14/2009 8:46:00 PM
NOTES: Sample was analyzed at M-CT008.						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 4/23/2009
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	0.194	0.130		mg/L	1	Analyst: RP 4/24/2009
CHLORIDE - L-10-177-07-1-B						
Chloride	30.3	1.50		mg/L	1	Analyst: RP 4/21/2009
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.592	0.130		mg/L	1	Analyst: RP 5/7/2009
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 4/15/2009
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: RP 4/15/2009 8:30:00 AM

Qualifiers: B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside recovery limits

BRL Below Reporting Limit
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA**Lab Order:** 0904231

DON - SM4500-NORG-B,C, SM4500-NH3-B,C					Analyst: RP
Dissolved Organic Nitrogen	0.377	0.130	mg/L	1	4/29/2009
PON-SM4500-NH3-B,C, SM4500-NORG-B,C					Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR					Analyst: RP
Total Dissolved Nitrogen	0.86	0.39	mg/L	1	4/29/2009
TOTAL PHOSPHOROUS - L10-115-01-1E					Analyst: RP
Total Phosphorous	0.232	0.0400	mg/L	1	4/24/2009

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

Lab ID: 0904231-009

Collection Date: 4/13/2009 1:05:00 PM

Client Sample ID: S-21

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	69.0	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/14/2009
CHLOROPHYLL - A						
Chlorophyll a	2.16	0.500		mg/m³	1	Analyst: SUB 4/15/2009
NOTES: Sample was analyzed at M-MA003.						
NITRATE - SM4500-NO3-F						
Nitrate	0.770	0.100		mg/L	1	Analyst: SUB 4/14/2009 8:50:00 PM
NOTES: Sample was analyzed at M-CT008.						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 4/23/2009
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	0.199	0.130		mg/L	1	Analyst: RP 4/24/2009
CHLORIDE - L-10-177-07-1-B						
Chloride	38.7	1.50		mg/L	1	Analyst: RP 4/21/2009
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.952	0.130		mg/L	1	Analyst: RP 5/7/2009
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 4/15/2009
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: RP 4/15/2009 8:30:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT**Reissue Date:** 19-Jun-09
Original Reported Date: 11-May-09**CLIENT:** Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA**Lab Order:** 0904231

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.254	0.130	mg/L	1	4/29/2009	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	1.2	0.39	mg/L	1	4/29/2009	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	4/24/2009	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09

CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

Lab ID: 0904231-010

Collection Date: 4/13/2009 1:35:00 PM

Client Sample ID: S-6A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	26.0	5.00		mg/L	1	Analyst: FC 4/14/2009
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	Analyst: QS 4/14/2009
CHLOROPHYLL - A						
Chlorophyll a	1.56	0.500		mg/m³	1	Analyst: SUB 4/15/2009
NOTES: Sample was analyzed at M-MA003.						
NITRATE - SM4500-NO3-F						
Nitrate	0.400	0.100		mg/L	1	Analyst: SUB 4/14/2009 8:51:00 PM
NOTES: Sample was analyzed at M-CT008.						
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 4/23/2009
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	ND	0.130		mg/L	1	Analyst: RP 4/24/2009
CHLORIDE - L-10-177-07-1-B						
Chloride	16.5	1.50		mg/L	1	Analyst: RP 4/21/2009
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.615	0.130		mg/L	1	Analyst: RP 5/7/2009
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 4/15/2009
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: RP 4/15/2009 8:30:00 AM

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

ANALYTICAL REPORT

Reissue Date: 19-Jun-09
Original Reported Date: 11-May-09CLIENT: Town of Plymouth
Project: Surface Water - Eel River, Plymouth MA

Lab Order: 0904231

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	ND	0.130	mg/L	1	4/29/2009	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/6/2009	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.51	0.39	mg/L	1	4/29/2009	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	4/24/2009	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside recovery limits		

GeoLabs, Inc.

45 Johnson Lane ~ Braintree MA 02184 ~ 781 848 7844 ~ 781 848 7811

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: **Surface Water** - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/13/09	1215	S-1	1	Glass Vial	POC	HCL
			1	Glass Vial	POC	NONE
			1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate, Chloride	NONE
			1	250 mL Plastic	Boron	HNO ₃
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
4/13/09	1245	S-9A	1	Glass Vial	POC	HCL
			1	Glass Vial	POC	NONE
			1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate, Chloride	NONE
			1	250 mL Plastic	Boron	HNO ₃
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

Kim Michaelis 4/13/09 3:10

Kim Michaelis 4/13/09 4pm

KC 4/13/09 15:20

0904231

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: **Surface Water - Eel River, Plymouth MA**
Sampler: **Kim Michaelis (KM)**

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/13/09	1140	S-3A	1	Glass Vial	POC	HCL
			1	Glass Vial	POC	NONE
			1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate, Chloride	NONE
			1	250 mL Plastic	Boron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
4/13/09	1150	S-2B	1	Glass Vial	POC	HCL
			1	Glass Vial	POC	NONE
			1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate, Chloride	NONE
			1	250 mL Plastic	Boron	HNO3
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE

Relinquished By: Date/Time

Kim MichaelisKim Michaelis 4/13/09 4pm

Received By: Date/Time:

Kim Michaelis 4/13/09 3:10KC 4/13/09 15:20

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of Custody

Client:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: **Surface Water - Eel River, Plymouth MA**
Sampler: **Kim Michaelis (KM)**

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/13/09	1120	S-8A	1	Glass Vial	POC	HCL
			1	Glass Vial	POC	NONE
			1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate, Chloride	NONE
			1	250 mL Plastic	Boron	HNO ₃
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
4/13/09	1130	S-4A	1	Glass Vial	POC	HCL
			1	Glass Vial	POC	NONE
			1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate, Chloride	NONE
			1	250 mL Plastic	Boron	HNO ₃
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE

Relinquished By: Date/Time

Kim Michaelis

Ben Michaelis 4/13/09 4pm

Received By: Date/Time:

Ben Michaelis 4/13/09 3:10

KC 4/13/09 15:20

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: **Surface Water - Eel River, Plymouth MA**
Sampler: Kim Michaelis (KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/13/09	1100	S-8B	1	Glass Vial	POC	HCL
			1	Glass Vial	POC	NONE
			1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate, Chloride	NONE
			1	250 mL Plastic	Boron	HNO ₃
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
4/13/09	1110	S-8B	1	Glass Vial	POC	HCL
			1	Glass Vial	POC	NONE
			1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate, Chloride	NONE
			1	250 mL Plastic	Boron	HNO ₃
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE

Relinquished By: Date/Time

Kim MichaelisKim Michaelis 4/13/09 4pm

Received By: Date/Time:

Kim Michaelis 4/13/09 3:10KC 4/13/09 15:20

Laboratory:

Geolabs, Inc., 45 Johnson Ln, Braintree, MA 02184
781-848-7844

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: **Surface Water** - Eel River, Plymouth MA
Sampler: Kim Michaelis (KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
4/13/09	1305	S-21	1	Glass Vial	POC	HCL
			1	Glass Vial	POC	NONE
			1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate, Chloride	NONE
			1	250 mL Plastic	Boron	HNO ₃
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
4/13/09	1335	S-6A	1	Glass Vial	POC	HCL
			1	Glass Vial	POC	NONE
			1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate, Chloride	NONE
			1	250 mL Plastic	Boron	HNO ₃
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	250mL Plastic	TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE

Relinquished By: Date/Time

Kim Michaelis

Received By: Date/Time:

Ken McKenna 4/13/09 3:19Ken McKenna 4/13/09 4pmKC 4/13/09 15:20

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, August 27, 2009

Town of Plymouth-Env. Mang.
DPW Environmental Mang.
Plymouth, MA 02360

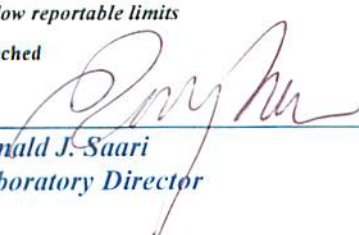
ProjectName: Harbor Sampling, Plymouth, MA
Project Number: NA
Collection Date: 7/23/09 **Collection Time:** NA
Sampled By: Kim Michaelis
Lab Order Number: WW-91468
Date Received: 07/23/09

Comments:

Sample Type	Sample Time	Sample Date	Comments			
Harbor Sampling A	12:50	7/23/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Organic Carbon*	mg/L	2.4*	*	07/28/09	RIA*	SM 5310 C
Nitrate-N low	mg/L	BRL	0.01	07/23/09	MC	300.0
Nitrite-N low	mg/L	BRL	0.004	07/23/09	MC	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	07/29/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.35	0.1	07/29/09	MC	SM4500 NH3 C
Total Phos (P) low	mg/L	0.025	0.005	07/29/09	MC	4500-P
Ammonia-N low*	mg/L	<0.10*	0.020	07/29/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.21	0.1	07/29/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	0.74*	*	07/28/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.1	08/27/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.21	0.1	08/27/09	MC	Calculation
Ortho Phos (P) low	mg/L	0.016	0.005	07/23/09	MC	4500-P
Particulate Organic Carbon	mg/L	1.7	*	08/27/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	0.1	08/27/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.21	0.1	08/27/09	MC	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

Thursday, August 27, 2009

Town of Plymouth-Env. Mang.
DPW Environmental Mang.
Plymouth, MA 02360

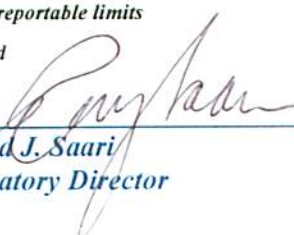
ProjectName: Harbor Sampling, Plymouth, MA **Comments:**
Project Number: NA
Collection Date: 7/23/09 **Collection Time:** NA
Sampled By: Kim Michaelis
Lab Order Number: WW-91468
Date Received: 07/23/09

Sample Type	Sample Time	Sample Date	Comments			
Harbor Sampling B	13:05	7/23/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	BRL	0.05	07/23/09	MC	300.0
Nitrite-N	mg/L	BRL	0.020	07/23/09	MC	300.0
Total Organic Carbon*	mg/L	1.0*	*	07/28/09	RIA*	SM 5310 C
Ammonia-N low*	mg/L	<0.10*	0.10	07/29/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.49	0.1	07/29/09	MC	SM4500 NH3 C
Total Phos (P) low	mg/L	0.023	0.005	07/29/09	MC	4500-P
Ammonia-N low*	mg/L	<0.10*	0.020	07/29/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.28	0.1	07/29/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	0.51*	*	07/28/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.1	08/27/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.28	0.1	08/27/09	MC	Calculation
Ortho Phos (P) low	mg/L	0.012	0.005	07/23/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5*	*	08/27/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	0.1	08/27/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.28	0.1	08/27/09	MC	Calculation

BRL=below reportable limits

*see attached

By:


Ronald J. Saari
Laboratory Director

CERTIFICATE OF ANALYSIS

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

Date Received: 7/24/09
Date Reported: 7/29/09
P.O. #:
Work Order #: 0907-13143

DESCRIPTION: PLYMOUTH ENV.

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
Date Received: 7/24/09
Work Order #: 0907-13143

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW91468A S-7

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/23/2009 @ 12:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	7/29/09	KA
TOC Low Level	2.4	0.5	mg/l	EPA 415.2	7/28/09	JJP
Dissolved TOC	0.74	0.5	mg/l	EPA 415.1	7/28/09	JJP

Sample # 002

SAMPLE DESCRIPTION: WW91468B S-10

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/23/2009 @ 13:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	7/29/09	KA
TOC Low Level	1.0	0.5	mg/l	EPA 415.2	7/28/09	JJP
Dissolved TOC	0.51	0.5	mg/l	EPA 415.1	7/28/09	JJP

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

Monday, August 31, 2009

Town of Plymouth

Att. David Gould

Plymouth MA 02360

ProjectName: SW Eel River**Comments:****Project Number:****Collection Date:** 07/31/09 **Collection Time:** 07:55**Sampled By:** Kim Michaelis**Lab Order Number:** HW-91554**Date Received:** 07/31/09

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	0755	07/31/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	86	6.0	08/15/09	MC	2540 C
Total Organic Carbon*	mg/L	3.5*	*	08/07/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/05/09	MC	200.7
Ammonia-N low	mg/L	0.12	0.01	07/31/09	LL	300.0
Nitrite-N low	mg/L	<0.004	0.004	07/31/09	LL	300.0
Ammonia-N low*	mg/L	0.51*	0.10	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.84	0.1	08/06/09	MC	SM4500 NH3 C
Chloride	mg/L	31.4	3.0	07/31/09	LL	300.0
Total Phos (P) low	mg/L	0.057	0.005	08/07/09	MC	4500-P
Ammonia-N low*	mg/L	0.51*	0.020	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.84	0.1	08/06/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	3.5*	*	08/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.63	0.1	08/28/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.33	0.1	08/28/09	MC	Calculation
Chlorophyll-a	*	2.1*	*	08/08/09	RIA*	*
Ortho Phos (P) low	mg/L	0.051	0.005	07/31/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5	*	08/28/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.10	0.1	08/28/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.96	0.1	08/28/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald V. Saafi

Laboratory Director

$$TN = DON(0.33) + PON(0.05) + NH_4(0.51) + NO_3(0.12) + NO_2(0.002) = 1.012$$

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

Monday, August 31, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 07/31/09 Collection Time: 0940

Sampled By: Kim Michaelis

Lab Order Number: WW-91545

Date Received: 07/31/09

Sample Type	Sample Time	Sample Date	Comments			
S-6A A	0940	07/31/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	39	6.0	08/25/09	MC	2540 C
Total Organic Carbon*	mg/L	1.5*	*	08/12/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/05/09	MC	200.7
Nitrate-N low	mg/L	0.26	0.01	07/31/09	LL	300.0
Nitrite-N low	mg/L	<0.004	0.004	07/31/09	LL	300.0
Ammonia-N low*	mg/L	<0.1*	0.10	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.77	0.1	08/06/09	MC	SM4500 NH3 C
Chloride	mg/L	16.3	3.0	07/31/09	LL	300.0
Total Phos (P) low	mg/L	0.065	0.005	08/07/09	MC	4500-P
Ammonia-N low*	mg/L	<0.1*	0.020	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.1	08/06/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.5*	*	08/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	<0.1	0.1	08/28/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.26	0.1	08/28/09	MC	Calculation
Chlorophyll-a	*	<1.1*	*	08/06/09	RIA*	*
Ortho Phos (P) low	mg/L	0.023	0.005	07/31/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5	*	08/28/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.77	0.1	08/28/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.26	0.1	08/28/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari
Laboratory Director

$$TN = DON(0.26) + PON(0.77) + NH_4(0.05) + NO_3(0.26) + NO_2(0.002) = 1.342$$

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

Monday, August 31, 2009

Town of Plymouth
 Att. David Gould
 Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 07/31/09 **Collection Time:** 10:00

Sampled By: Kim Michaelis

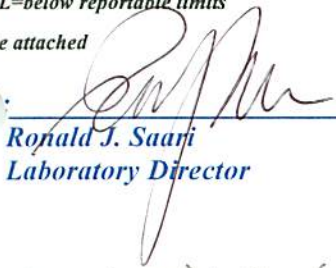
Lab Order Number: WW-91546

Date Received: 07/31/09

Sample Type	Sample Time	Sample Date	Comments			
S-14 A	10:00	07/31/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	39	6.0	08/15/09	MC	2540 C
Total Organic Carbon*	mg/L	4.7*	*	08/12/09	RIA*	SM 5310 C
Boron	mg/L	0.022	0.010	08/05/09	MC	200.7
Nitrate-N low	mg/L	0.06	0.01	07/31/09	LL	300.0
Nitrite-N low	mg/L	<0.004	0.004	07/31/09	LL	300.0
Ammonia-N low*	mg/L	<0.1*	0.10	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.84	0.1	08/06/09	MC	SM4500 NH3 C
Chloride	mg/L	11.6	3.0	07/31/09	LL	300.0
Total Phos (P) low	mg/L	0.069	0.005	08/07/09	MC	4500-P
Ammonia-N low*	mg/L	<0.1*	0.020	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.56	0.1	08/06/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.2*	*	08/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.06	0.1	08/28/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.56	0.1	08/28/09	MC	Calculation
Chlorophyll-a	*	<1.1*	*	08/06/09	RIA*	*
Ortho Phos (P) low	mg/L	0.027	0.005	07/31/09	MC	4500-P
Particulate Organic Carbon	mg/L	2.5	*	08/28/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.28	0.1	08/28/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.62	0.1	08/28/09	MC	Calculation

BRL=below reportable limits

*see attached


 Ronald J. Saari
 Laboratory Director

$$TN = DON(0.56) + PON(0.28) + NH_4(0.05) + NO_3(0.06) + NO_2(0.002) = 0.952$$

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

Monday, August 31, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 07/31/09 **Collection Time:** 0900

Sampled By: Kim Michaelis

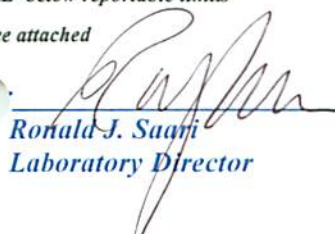
Lab Order Number: WW-91547

Date Received: 07/31/09

Sample Type	Sample Time	Sample Date	Comments			
S-1 A	0900	07/31/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	98	6.0	08/15/08	MC	2540 C
Total Organic Carbon*	mg/L	1.8*	*	08/12/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/05/09	MC	200.7
Nitrate-N low	mg/L	0.36	0.01	07/31/09	LL	300.0
Nitrite-N low	mg/L	<0.004	0.004	07/31/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	08/12/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.77	0.1	08/06/09	MC	SM4500 NH3 C
Chloride	mg/L	43.6	3.0	07/31/09	LL	300.0
Total Phos (P) low	mg/L	0.057	0.005	08/07/09	MC	4500-P
Ammonia-N low*	mg/L	<0.10*	0.020	08/12/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.49	0.1	08/06/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.7*	*	08/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.36	0.1	08/28/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.49	0.1	08/28/09	MC	Calculation
Chlorophyll-a	*	8.3*	*	08/06/09	RIA*	*
Ortho Phos (P) low	mg/L	0.019	0.005	07/31/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5	*	08/28/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.28	0.1	08/28/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.85	0.1	08/28/09	MC	Calculation

BRL=below reportable limits

*see attached


Ronald J. Saaji
Laboratory Director

$$TN = DON(0.49) + PON(0.28) + NH_4(0.05) + NO_3(0.36) + NO_2(0.002) = 1.182$$

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

Monday, August 31, 2009

Town of Plymouth
 Att. David Gould
 Plymouth MA 02360

ProjectName: SW Eel River **Comments:**
Project Number:
Collection Date: 07/31/09 **Collection Time:** 0910
Sampled By: Kim Michaelis
Lab Order Number: WW-91548
Date Received: 07/31/09

Sample Type	Sample Time	Sample Date	Comments			
S-9A A	0910	07/31/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	69	6.0	08/15/09	MC	2540 C
Total Organic Carbon*	mg/L	2.0*	*	08/12/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/05/09	MC	200.7
Ammonia-N low	mg/L	0.45	0.01	07/31/09	LL	300.0
Nitrate-N low	mg/L	<0.004	0.004	07/31/09	LL	300.0
Ammonia-N low*	mg/L	<0.1*	0.10	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.70	0.1	08/06/09	MC	SM4500 NH3 C
Chloride	mg/L	49.9	3.0	07/31/09	LL	300.0
Total Phos (P) low	mg/L	0.057*	0.005	08/07/09	MC	4500-P
Ammonia-N low*	mg/L	<0.1*	0.020	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.35	0.1	08/06/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.0*	*	08/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.45	0.1	08/28/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.35	0.1	08/28/09	MC	Calculation
Chlorophyll-a	*	2.7*	*	08/06/09	RIA*	*
Ortho Phos (P) low	mg/L	0.032	0.005	07/31/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5	*	08/28/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.35	0.1	08/28/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.8	0.1	08/28/09	MC	Calculation

BRL=below reportable limits

*see attached


 Ronald J. Saari
 Laboratory Director

$$TN = DON(0.35) + PON(0.35) + NH_4(0.05) + NO_3(0.45) + NO_2(0.002) = 1.202$$

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

Monday, August 31, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 07/31/09 Collection Time: 08:25

Sampled By: Kim Michaelis

Lab Order Number: WW-91549

Date Received: 07/31/09

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	0825	07/31/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	76	6.0	08/15/09	MC	2540 C
Total Organic Carbon*	mg/L	2.0*	*	08/12/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/05/09	MC	200.7
Ammonia-N low	mg/L	0.23	0.01	07/31/09	LL	300.0
Nitrate-N low	mg/L	0.23	0.004	07/31/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.98	0.1	08/06/09	MC	SM4500 NH3 C
Chloride	mg/L	24.8	3.0	07/31/09	LL	300.0
Total Phos (P) low	mg/L	0.060	0.005	08/07/09	MC	4500-P
Ammonia-N low*	mg/L	<0.10*	0.020	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.42	0.1	08/06/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.0*	*	08/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.23	0.1	08/28/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.42	0.1	08/28/09	MC	Calculation
Chlorophyll-a	*	<1.1*	*	08/06/09	RIA*	*
Ortho Phos (P) low	mg/L	0.028	0.005	07/31/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5	*	08/28/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.56	0.1	08/28/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.65	0.1	08/28/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Sagri
Laboratory Director

$$TN = DON(0.42) + PON(0.56) + NH_4(0.05) + NO_3(0.23) + NO_2(0.23) = 1.49$$

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

Monday, August 31, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

ProjectName: SW Eel River**Comments:****Project Number:****Collection Date:** 07/31/09 **Collection Time:** 0840**Sampled By:** Kim Michaelis**Lab Order Number:** WW-91550**Date Received:** 07/31/09

Sample Type	Sample Time	Sample Date	Comments			
S-2B A	0840	07/31/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	56	6.0	08/15/09	MC	2540 C
Total Organic Carbon*	mg/L	2.0*	*	08/12/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/05/09	MC	200.7
Ammonia-N low	mg/L	<0.01	0.01	07/31/09	LL	300.0
Nitrate-N low	mg/L	<0.004	0.004	07/31/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.91	0.1	08/06/09	MC	SM4500 NH3 C
Chloride	mg/L	19.9	3.0	07/31/09	LL	300.0
Total Phos (P) low	mg/L	0.036	0.005	08/07/09	MC	4500-P
Ammonia-N low*	mg/L	<0.10*	0.020	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.28	0.1	08/06/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.0*	*	08/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	<0.1	0.1	08/28/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.28	0.1	08/28/09	MC	Calculation
Chlorophyll-a	*	2.7*	*	08/06/09	RIA*	*
Ortho Phos (P) low	mg/L	0.012	0.005	07/31/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5	*	08/28/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.63	0.1	08/28/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.28	0.1	08/28/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Suari
Laboratory Director

$$TN = DON (0.28) + PON (0.63) + NH_4 (0.05) + NO_3 (0.005) + NO_2 (0.002) = 0.967$$

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

Monday, August 31, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

Project Name: SW Eel River

Comments:

Project Number:

Collection Date: 07/31/09 Collection Time: 0805

Sampled By: Kim Michaelis

Lab Order Number: WW-91551

Date Received: 07/31/09

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	08:05	07/31/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	48	6.0	08/15/09	MC	2540 C
Total Organic Carbon*	mg/L	3.9*	*	08/12/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/05/09	MC	200.7
Nitrate-N low	mg/L	0.03	0.01	07/31/09	LL	300.0
Nitrite-N low	mg/L	<0.004	0.004	07/31/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.14	0.1	08/06/09	MC	SM4500 NH3 C
Chloride	mg/L	22.1	3.0	07/31/09	LL	300.0
Total Phos (P) low	mg/L	0.067	0.005	08/07/09	MC	4500-P
Ammonia-N low*	mg/L	<0.10*	0.020	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.14	0.1	08/06/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	3.9*	*	08/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	<0.1	0.1	08/28/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.14	0.1	08/28/09	MC	Calculation
Chlorophyll-a	*	<1.1*	*	08/06/09	MC	*
Ortho Phos (P) low	mg/L	0.037	0.005	07/31/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5	*	08/28/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.10	0.1	08/28/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.17	0.1	08/28/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari
Laboratory Director

$$TN = DON (0.14) + PON (0.05) + NH_4 (0.05) + NO_3 (0.03) + NO_2 (0.002) = 0.272$$

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

Monday, August 31, 2009

Town of Plymouth
 Att. David Gould
 Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 07/31/09 **Collection Time:** 08:15

Sampled By: Kim Michaelis

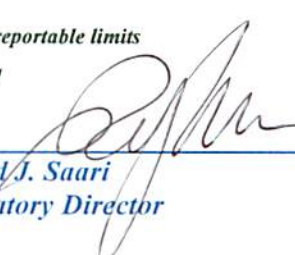
Lab Order Number: WW-91552

Date Received: 07/31/09

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	08:15	07/31/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	61	6.0	08/15/09	MC	2540 C
Total Organic Carbon*	mg/L	4.9*	*	08/12/09	RIA*	SM 5310 C
Boron	mg/L	0.012	0.010	08/05/09	MC	200.7
Ammonia-N low	mg/L	0.04	0.01	07/31/09	LL	300.0
Nitrite-N low	mg/L	<0.004	0.004	07/31/09	LL	300.0
Ammonia-N low*	mg/L	0.11*	0.10	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.28	0.1	08/06/09	MC	SM4500 NH3 C
Chloride	mg/L	22.0	3.0	07/31/09	LL	300.0
Total Phos (P) low	mg/L	0.068	0.005	08/07/09	MC	4500-P
Ammonia-N low*	mg/L	0.11*	0.020	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.28	0.1	08/06/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	3.5*	*	08/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.15	0.1	08/28/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.17	0.1	08/28/09	MC	Calculation
Chlorophyll-a	*	2.4*	*	08/06/09	RIA*	*
Ortho Phos (P) low	mg/L	0.035	0.005	07/31/09	MC	4500-P
Particulate Organic Carbon	mg/L	1.4	*	08/28/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.1	0.1	08/28/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.32	0.1	08/28/09	MC	Calculation

BRL=below reportable limits

*see attached


 Ronald J. Saari
 Laboratory Director

$$TN = DON(0.17) + PON(0.05) + NH_4(0.11) + NO_3(0.04) + NO_2(0.002) = 0.372$$

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

Monday, August 31, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

Project Name: SW Eel River

Comments:

Project Number:

Collection Date: 07/31/09 Collection Time: 0745

Sampled By: Kim Michaelis

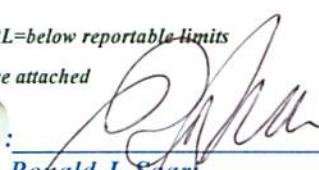
Lab Order Number: WW-91553

Date Received: 07/31/09

Sample Type	Sample Time	Sample Date	Comments			
S-8B A	0745	07/31/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	211	6.0	08/15/09	MC	2540 C
Total Organic Carbon*	mg/L	2.8*	*	08/12/09	RIA*	SM 5310 C
Boron	mg/L	0.006	0.010	08/05/09	MC	200.7
Ammonia-N low	mg/L	0.17	0.01	07/31/09	LL	300.0
Nitrite-N low	mg/L	<0.004	0.004	07/31/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.35	0.1	08/06/09	MC	SM4500 NH3 C
Chloride	mg/L	65.9	3.0	07/31/09	LL	300.0
Total Phos (P) low	mg/L	0.031	0.005	08/07/09	MC	4500-P
Ammonia-N low*	mg/L	<0.10*	0.020	08/07/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.1	08/06/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.4*	*	08/12/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.17	0.1	08/28/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	<0.10	0.1	08/28/09	MC	Calculation
Chlorophyll-a	*	1.9*	*	08/06/09	RIA*	*
Ortho Phos (P) low	mg/L	0.027	0.005	07/31/09	MC	4500-P
Particulate Organic Carbon	mg/L	1.4	*	08/28/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.35	0.1	08/28/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.17	0.1	08/28/09	MC	Calculation

BRL=below reportable limits

*see attached


Ronald J. Saari
Laboratory Director

$$TN = DON(0.05) + PON(0.35) + NH_4(0.05) + NO_3(0.17) + NO_2(0.002) = 0.622$$

Laboratory:

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

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/31/09	0805	S-8A	1	Plastic	TOC	H2SO4
7/31/09			1	100 mL Glass	Ortho-Phosphate	NONE
7/31/09			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
7/31/09			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
7/31/09			1	500ml Plastic	Boron	NONE
7/31/09			1	Liter Glass	Chlorophyll-a	NONE
7/31/09	0815	S-4A	1	Plastic	TOC	H2SO4
7/31/09			1	100 mL Glass	Ortho-Phosphate	NONE
7/31/09			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
7/31/09			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
7/31/09			1	500ml Plastic	Boron	NONE
7/31/09			1	Liter Glass	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, Boron, Chlorophyll-a

Relinquished By: Date/Time

Kim Michaelis 7/31/09

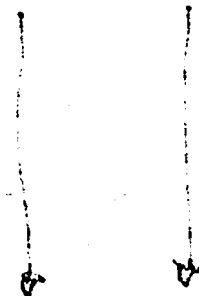
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[Signature] 7/31 1120

A8-2 2080



A4-2 2180



POLETS SUMMIT

Laboratory:

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

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/31/09	0825	S-3A	1	Plastic	TOC	H2SO4
7/31/09			1	100 mL Glass	Ortho-Phosphate	NONE
7/31/09			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
7/31/09			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
7/31/09			1	500ml Plastic	Boron	NONE
7/31/09			1	Liter Glass	Chlorophyll-a	NONE
7/31/09	0840	S-2B	1	Plastic	TOC	H2SO4
7/31/09			1	100 mL Glass	Ortho-Phosphate	NONE
7/31/09			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
7/31/09			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
7/31/09			1	500ml Plastic	Boron	NONE
7/31/09			1	Liter Glass	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, Boron, Chlorophyll-a

Relinquished By: Date/Time

Kim Michaelis 7/31/09

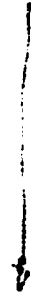
Received By: Date/Time:

[Signature] 7/31

1120

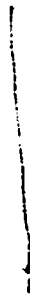
A2-2

2550



2-2B

0490



police report

Laboratory:

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

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/31/09	0900	S-1	1	Plastic	TOC	H2SO4
7/31/09			1	100 mL Glass	Ortho-Phosphate	NONE
7/31/09			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
7/31/09			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
7/31/09			1	500ml Plastic	Boron	NONE
7/31/09			1	Liter Glass	Chlorophyll-a	NONE
7/31/09	0910	S-9A	1	Plastic	TOC	H2SO4
7/31/09			1	100 mL Glass	Ortho-Phosphate	NONE
7/31/09			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
7/31/09			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
7/31/09			1	500ml Plastic	Boron	NONE
7/31/09			1	Liter Glass	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, Boron, Chlorophyll-a

Relinquished By: Date/Time

Kim Michaelis 7/31/09

Received By:

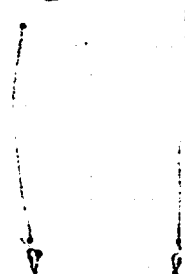
Date/Time:

[Signature] 7/31 1120

1-2 COPO



AP-2 OIPO



Police summary

Laboratory:

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

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

WW91545

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/31/09	0940	S-6A	1	Plastic	TOC	H2SO4
7/31/09			1	100 mL Glass	Ortho-Phosphate	NONE
7/31/09			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
7/31/09			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
7/31/09			1	500ml Plastic	Boron Chlorophyll-a	NONE
7/31/09			1	Liter Glass	Chlorophyll-a	NONE
7/31/09	1000	S-14	1	Plastic	TOC	H2SO4
7/31/09			1	100 mL Glass	Ortho-Phosphate	NONE
7/31/09			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
7/31/09			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
7/31/09			1	500ml Plastic	Boron	NONE
7/31/09			1	Liter Glass	Chlorophyll-a	NONE

WW-91546

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, Boron, Chlorophyll-a

Relinquished By: Date/Time

Kim Michaelis 7/31/06

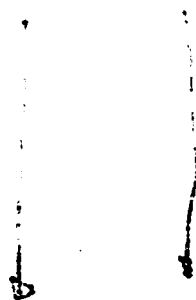
Received By: Date/Time:

JNA 7/31 1120

Ad-2 OPP3



H-2 000.



2-21 4/17 AM

sollet inamnd

Laboratory:

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

Chain of CustodyClient:

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/31/09	0745	S-8B	1	Plastic	TOC	H2SO4
7/31/09			1	100 mL Glass	Ortho-Phosphate	NONE
7/31/09			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
7/31/09			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
7/31/09			1	500ml Plastic	Boron	NONE
7/31/09			1	Liter Glass	Chlorophyll-a	NONE
7/31/09	0755	S-5B	1	Plastic	TOC	H2SO4
7/31/09			1	100 mL Glass	Ortho-Phosphate	NONE
7/31/09			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
7/31/09			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
7/31/09			1	500ml Plastic	Boron	NONE
7/31/09			1	Liter Glass	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, Boron, Chlorophyll-a

Relinquished By: Date/Time

Kim Michaelis 7/31/09

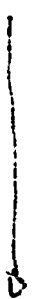
Received By: Date/Time:

[Signature] 7/31 1120

2-8B 2470



2-2B 2420



Handwritten signature or text

CERTIFICATE OF ANALYSIS

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

Date Received: 8/4/09
Date Reported: 8/12/09
P.O. #:
Work Order #: 0908-13744

DESCRIPTION: PLYMOUTH ENV.

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 8/4/09

Work Order #: 0908-13744

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW91545 S-6A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/31/2009 @ 09:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	8/6/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	8/7/09	EVH
TOC Low Level	1.5	0.5	mg/l	SM 5310C	8/12/09	JJP
Dissolved TOC	1.5	0.5	mg/l	EPA 415.1	8/12/09	JJP

Sample # 002

SAMPLE DESCRIPTION: WW91546 S-14

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/31/2009 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	8/6/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	8/7/09	EVH
TOC Low Level	4.7	0.5	mg/l	SM 5310C	8/12/09	JJP
Dissolved TOC	2.2	0.5	mg/l	EPA 415.1	8/12/09	JJP

Sample # 003

SAMPLE DESCRIPTION: WW91547 S-1

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/31/2009 @ 09:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	8.3	1.1	mg/m ³	SM 10200-H	8/6/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	8/7/09	EVH
TOC Low Level	1.8	0.5	mg/l	SM 5310C	8/12/09	JJP
Dissolved TOC	1.7	0.5	mg/l	EPA 415.1	8/12/09	JJP

Sample # 004

SAMPLE DESCRIPTION: WW91548 S-9A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/31/2009 @ 09:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	2.7	1.1	mg/m ³	SM 10200-H	8/6/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	8/7/09	EVH
TOC Low Level	2.0	0.5	mg/l	SM 5310C	8/12/09	JJP
Dissolved TOC	2.0	0.5	mg/l	EPA 415.1	8/12/09	JJP

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
 Date Received: 8/4/09
 Work Order #: 0908-13744

Approved by: 

Data Reporting

Sample # 005

SAMPLE DESCRIPTION: WW91549 S-3A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/31/2009 @ 08:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	8/6/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	8/7/09	EVH
TOC Low Level	2.0	0.5	mg/l	SM 5310C	8/12/09	JJP
Dissolved TOC	2.0	0.5	mg/l	EPA 415.1	8/12/09	JJP

Sample # 006

SAMPLE DESCRIPTION: WW91550 S-2B

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/31/2009 @ 08:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	2.7	1.1	mg/m ³	SM 10200-H	8/6/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	8/7/09	EVH
TOC Low Level	2.0	0.5	mg/l	SM 5310C	8/12/09	JJP
Dissolved TOC	2.0	0.5	mg/l	EPA 415.1	8/12/09	JJP

Sample # 007

SAMPLE DESCRIPTION: WW91551 S-8A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/31/2009 @ 08:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	8/6/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	8/7/09	EVH
TOC Low Level	3.9	0.5	mg/l	SM 5310C	8/12/09	JJP
Dissolved TOC	3.9	0.5	mg/l	EPA 415.1	8/12/09	JJP

Sample # 008

SAMPLE DESCRIPTION: WW91552 S-4A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/31/2009 @ 08:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	2.4	1.1	mg/m ³	SM 10200-H	8/6/09	ML
Ammonia (as N)	0.11	0.10	mg/l	SM 4500-NH3 C	8/7/09	EVH
TOC Low Level	4.9	0.5	mg/l	SM 5310C	8/12/09	JJP
Dissolved TOC	3.5	0.5	mg/l	EPA 415.1	8/12/09	JJP

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 8/4/09

Work Order #: 0908-13744

Approved by: 

Data Reporting

Sample # 009

SAMPLE DESCRIPTION: WW91553 S-8B

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/31/2009 @ 07:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	1.9	1.1	mg/m ³	SM 10200-H	8/6/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	8/7/09	EVH
TOC Low Level	2.8	0.5	mg/l	SM 5310C	8/12/09	JJP
Dissolved TOC	1.4	0.5	mg/l	EPA 415.1	8/12/09	JJP

Sample # 010

SAMPLE DESCRIPTION: WW91554 S-5B

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/31/2009 @ 07:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	2.1	1.1	mg/m ³	SM 10200-H	8/6/09	ML
Ammonia (as N)	0.51	0.10	mg/l	SM 4500-NH3 C	8/7/09	EVH
TOC Low Level	3.5	0.5	mg/l	SM 5310C	8/12/09	JJP
Dissolved TOC	3.5	0.5	mg/l	EPA 415.1	8/12/09	JJP

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, August 27, 2009

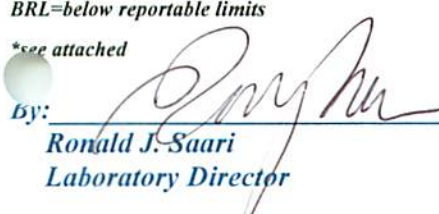
Town of Plymouth-Env. Mang.
DPW Environmental Mang.
Plymouth, MA 02360

ProjectName: Harbor Sampling, Plymouth, MA **Comments:**
Project Number: NA
Collection Date: 7/23/09 **Collection Time:** NA
Sampled By: Kim Michaelis
Lab Order Number: WW-91468
Date Received: 07/23/09

Sample Type S-7 Harbor Sampling A	Sample Time 12:50	Sample Date 7/23/09	Comments			
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Organic Carbon*	mg/L	2.4*	*	07/28/09	RIA*	SM 5310 C
Nitrate-N low	mg/L	BRL	0.01	07/23/09	MC	300.0
Nitrite-N low	mg/L	BRL	0.004	07/23/09	MC	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	07/29/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.35	0.1	07/29/09	MC	SM4500 NH3 C
Total Phos (P) low	mg/L	0.025	0.005	07/29/09	MC	4500-P
Ammonia-N low*	mg/L	<0.10*	0.020	07/29/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.21	0.1	07/29/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	0.74*	*	07/28/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.1	08/27/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.21	0.1	08/27/09	MC	Calculation
Ortho Phos (P) low	mg/L	0.016	0.005	07/23/09	MC	4500-P
Particulate Organic Carbon	mg/L	1.7	*	08/27/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	0.1	08/27/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.21	0.1	08/27/09	MC	Calculation

BRL=below reportable limits

*see attached

By: 
Ronald J. Saari
Laboratory Director

$$TN = DON(0.21) + PON(0.14) + NH_4(0.05) + NO_3(0.005) + NO_2(0.002) = 0.407$$

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, August 27, 2009

Town of Plymouth-Env. Mang.
DPW Environmental Mang.
Plymouth, MA 02360

ProjectName: Harbor Sampling, Plymouth, MA
Project Number: NA
Collection Date: 7/23/09 **Collection Time:** NA
Sampled By: Kim Michaelis
Lab Order Number: WW-91468
Date Received: 07/23/09

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-10 Harbor Sampling B	13:05	7/23/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N	mg/L	BRL	0.05	07/23/09	MC	300.0
Nitrite-N	mg/L	BRL	0.020	07/23/09	MC	300.0
Total Organic Carbon*	mg/L	1.0*	*	07/28/09	RIA*	SM 5310 C
Ammonia-N low*	mg/L	<0.10*	0.10	07/29/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.49	0.1	07/29/09	MC	SM4500 NH3 C
Total Phos (P) low	mg/L	0.023	0.005	07/29/09	MC	4500-P
Ammonia-N low*	mg/L	<0.10*	0.020	07/29/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.28	0.1	07/29/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	0.51*	*	07/28/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.1	08/27/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.28	0.1	08/27/09	MC	Calculation
Ortho Phos (P) low	mg/L	0.012	0.005	07/23/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5*	*	08/27/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	0.1	08/27/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.28	0.1	08/27/09	MC	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Saari
Laboratory Director

$$TN = DON(0.28) + PON(0.21) + NH_4(0.05) + NO_3(0.025) + NO_2(0.010) = 0.575$$

CERTIFICATE OF ANALYSIS

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

Date Received: 7/24/09
Date Reported: 7/29/09
P.O. #:
Work Order #: 0907-13143

DESCRIPTION: PLYMOUTH ENV.

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 7/24/09

Work Order #: 0907-13143

Approved by: 

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW91468A S-7

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/23/2009 @ 12:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	7/29/09	KA
TOC Low Level	2.4	0.5	mg/l	EPA 415.2	7/28/09	JJP
Dissolved TOC	0.74	0.5	mg/l	EPA 415.1	7/28/09	JJP

Sample # 002

SAMPLE DESCRIPTION: WW91468B S-10

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 7/23/2009 @ 13:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	7/29/09	KA
TOC Low Level	1.0	0.5	mg/l	EPA 415.2	7/28/09	JJP
Dissolved TOC	0.51	0.5	mg/l	EPA 415.1	7/28/09	JJP

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, September 15, 2009

Town of Plymouth
 Att. David Gould
 Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 08/27/09 **Collection Time:** 0930

Sampled By: KM

Lab Order Number: WW-91873

Date Received: 08/27/09

Sample Type	Sample Time	Sample Date	Comments			
SW Eel River S-1 A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	83.0	6.0	09/02/09	MC	2540 C
Boron	mg/L	BRL	0.010	08/31/09	MC	200.7
Nitrate-N low	mg/L	0.34	0.01	08/27/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	08/27/09	LL	300.0
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.77	0.2	09/02/09	MC	SM4500 NH3 C
Chloride	mg/L	41.9	3.0	08/27/09	LL	300.0
Total Phos (P) low	mg/L	0.107	0.005	09/03/09	MC	4500-P
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.70	0.2	09/02/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.5	*	09/03/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.34	0.2	09/14/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.70	0.2	09/14/09	MC	Calculation
Chlorophyll-a	*	1.1	*	09/03/09	RIA*	*
Ortho Phos (P) low	mg/L	0.033	0.005	08/27/09	MC	4500-P
Particulate Organic Carbon	mg/L	1.4	*	09/03/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	09/14/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	1.04	0.2	09/14/09	MC	Calculation

BRL=below reportable limits

*see attached


 Ronald J. Saari
 Laboratory Director

$$TN = DON(0.76) + PON(1) + NH_4(0.05) + NO_3(0.34) + NO_2(0.002) = 1.192$$

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, September 15, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 08/27/09 Collection Time: 1000

Sampled By: KM

Lab Order Number: WW-91874

Date Received: 08/27/09

Sample Type	Sample Time	Sample Date	Comments			
SW Eel River S-9A A	1000	08/27/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	108	6.0	09/02/09	MC	2540 C
Total Organic Carbon*	mg/L	1.6	*	09/03/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/09	MC	200.7
Ammonia-N low	mg/L	0.43	0.01	08/27/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	08/27/09	LL	300.0
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.70	0.2	09/02/09	MC	SM4500 NH3 C
Chloride	mg/L	48.5	3.0	08/27/09	LL	300.0
Total Phos (P) low	mg/L	0.101	0.005	09/03/09	MC	4500-P
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.63	0.2	09/02/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.5	*	09/03/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.43	0.2	09/14/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.63	0.2	09/14/09	MC	Calculation
Chlorophyll-a	*	BRL	*	09/03/09	RIA*	*
Ortho Phos (P) low	mg/L	0.024	0.005	08/27/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	*	09/14/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	0.2	09/14/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	1.06	0.2	09/14/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari
Laboratory Director

$$TN = DON (.63) + PON (.07) + NH_4 (.05) + NO_3 (.43) + NO_2 (.002) = 1.182$$

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, September 15, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 08/27/09 **Collection Time:** 0845

Sampled By: KM

Lab Order Number: WW-91875

Date Received: 08/27/09

Sample Type	Sample Time	Sample Date	Comments			
SW Eel River S-3A A	0845	08/27/09	**Lab accident			
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	66	6.0	09/02/09	MC	2540 C
Total Organic Carbon*	mg/L	2.8	*	09/03/09	RIA*	SM 5310 C
Boron	mg/L	0.010	0.010	08/31/09	MC	200.7
Nitrate-N low	mg/L	0.12	0.01	08/27/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	08/27/09	LL	300.0
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.77	0.2	09/02/09	MC	SM4500 NH3 C
Chloride	mg/L	22.6	3.0	08/27/09	LL	300.0
Total Phos (P) low	mg/L	0.072	0.005	09/03/09	MC	4500-P
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.70	0.2	09/02/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.0	*	09/03/09	MC	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	09/14/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.70	0.2	09/14/09	MC	Calculation
Chlorophyll-a	*	Not Tested**	*			*
Ortho Phos (P) low	mg/L	0.025	0.005	08/27/09	MC	4500-P
Particulate Organic Carbon	mg/L	0.8	*	09/14/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	09/14/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.82	0.2	09/14/09	MC	Calculation

BRL=below reportable limits

*see attached


Ronald J. Sadri
Laboratory Director

$$TN = DON(0.70) + PON(0.1) + NH_4(0.05) + NO_3(0.12) + NO_2(0.002) = 0.972$$

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, September 15, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 08/27/09 Collection Time: 0900

Sampled By: KM

Lab Order Number: WW-91876

Date Received: 08/27/09

Sample Type	Sample Time	Sample Date	Comments			
SW Eel River S-2B A	0900	08/27/09	**Lab Accident			
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	60	6.0	09/02/09	MC	2540 C
Total Organic Carbon*	mg/L	1.9	*	09/03/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/09	MC	200.7
Ammonia-N low	mg/L	BRL	0.01	08/27/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	08/27/09	LL	300.0
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.49	0.2	09/02/09	MC	SM4500 NH3 C
Chloride	mg/L	20.7	3.0	08/27/09	LL	300.0
Total Phos (P) low	mg/L	0.069	0.005	09/03/09	MC	4500-P
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.42	0.2	09/02/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.9	*	09/03/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	09/14/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.42	0.2	09/14/09	MC	Calculation
Chlorophyll-a	*	Not Tested**	*			*
Ortho Phos (P) low	mg/L	0.016	0.005	08/27/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	*	09/14/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	09/14/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.42	0.2	09/14/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari
Laboratory Director

$$TN = DON(0.42) + PON(1.9) + NH_4(0.05) + NO_3(0.005) + NO_2(0.005) = 1.58$$

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, September 15, 2009

Town of Plymouth

Att. David Gould

Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 08/27/09 Collection Time: 0820

Sampled By: KM

Lab Order Number: WW-91877

Date Received: 08/27/09

Sample Type	Sample Time	Sample Date	Comments			
SW Eel River S-4A A	0820	08/27/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	59	6.0	09/02/09	MC	2540 C
Total Organic Carbon*	mg/L	2.3	*	09/03/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/09	MC	200.7
Ammonia-N low	mg/L	BRL	0.01	08/27/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	08/27/09	LL	300.0
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.63	0.2	09/02/09	MC	SM4500 NH3 C
Chloride	mg/L	23.7	3.0	08/27/09	LL	300.0
Total Phos (P) low	mg/L	0.063	0.005	09/03/09	MC	4500-P
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.49	0.2	09/02/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.3	*	09/03/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	09/14/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.49	0.2	09/14/09	MC	Calculation
Chlorophyll-a	*	2.7	*	09/03/09	RIA*	*
Ortho Phos (P) low	mg/L	0.021	0.005	08/27/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	*	09/14/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	09/14/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.49	0.2	09/14/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari
Laboratory Director

$$TN = DON(0.49) + PON(0.1) + NH_4(0.05) + NO_3(0.005) + NO_2(0.002) = .647$$

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, September 15, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

Project Name: SW Eel River

Comments:

Project Number:

Collection Date: 08/27/09 Collection Time: 0820

Sampled By: KM

Lab Order Number: WW-91878

Date Received: 08/27/09

Sample Type	Sample Time	Sample Date	Comments			
SW Eel River S-8A A	0830	08/27/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	55	6.0	09/02/09	MC	2540 C
Total Organic Carbon*	mg/L	2.6	*	09/03/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/09	MC	200.7
Ammonia-N low	mg/L	BRL	0.01	08/27/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	08/27/09	LL	300.0
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.28	0.2	09/02/09	MC	SM4500 NH3 C
Chloride	mg/L	23.6	3.0	08/27/09	LL	300.0
Total Phos (P) low	mg/L	0.067	0.005	09/03/09	MC	4500-P
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.2	09/02/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.5	*	09/03/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	09/14/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	BRL	0.2	09/14/09	MC	Calculation
Chlorophyll-a	*	1.6	*	09/03/09	RIA*	*
Ortho Phos (P) low	mg/L	0.032	0.005	08/27/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	*	09/14/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.28	0.2	09/14/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	BRL	0.2	09/14/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari
Laboratory Director

$$TN = DON(1.1) + PON(1.28) + NH_4(0.05) + NO_3(1.005) + NO_2(1.002) = .437$$

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, September 15, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

Project Name: SW Eel River

Comments:

Project Number:

Collection Date: 08/27/09 Collection Time: 0800

Sampled By: KM

Lab Order Number: WW-91879

Date Received: 08/27/09

Sample Type	Sample Time	Sample Date	Comments			
SW Eel River S-8B A	0800	08/27/09	**Lab Accident			
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	191	6.0	09/02/09	MC	2540 C
Total Organic Carbon*	mg/L	1.1	*	09/03/09	RIA*	SM 5310 C
Boron	mg/L	0.010	0.010	08/31/09	MC	200.7
Ammonia-N low	mg/L	0.15	0.01	08/27/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	08/27/09	LL	300.0
Ammonia-N low*	mg/L	0.12	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.21	0.2	09/02/09	MC	SM4500 NH3 C
Chloride	mg/L	64.7	3.0	08/27/09	LL	300.0
Total Phos (P) low	mg/L	0.039	0.005	09/03/09	MC	4500-P
Ammonia-N low*	mg/L	0.12	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.2	09/02/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	0.98	*	09/03/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.27	0.2	09/14/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	BRL	0.2	09/14/09	MC	Calculation
Chlorophyll-a	*	Not Tested**	*			*
Ortho Phos (P) low	mg/L	0.039	0.005	08/27/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	*	09/14/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	0.2	09/14/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	BRL	0.2	09/14/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari
Laboratory Director

$$TN = DON(1.1) + PON(.21) + NH_4(1.12) + NO_3(.15) + NO_2(.002) = .582$$

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, September 15, 2009

Town of Plymouth
Att. David Gould
Plymouth MA 02360

ProjectName: SW Eel River

Comments:

Project Number:

Collection Date: 08/27/09 Collection Time: 0810

Sampled By: KM

Lab Order Number: WW-91880

Date Received: 08/27/09

Sample Type	Sample Time	Sample Date	Comments			
SW Eel River S-5B A	0810	08/27/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	82	6.0	09/02/09	MC	2540 C
Total Organic Carbon*	mg/L	2.3	*	09/03/09	RIA*	SM 5310 C
Boron	mg/L	0.010	0.010	08/31/09	MC	200.7
Nitrate-N low	mg/L	0.05	0.01	08/27/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	08/27/09	LL	300.0
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.63	0.2	09/02/09	MC	SM4500 NH3 C
Chloride	mg/L	34.8	3.0	08/27/09	LL	300.0
Total Phos (P) low	mg/L	0.081	0.005	09/03/09	MC	4500-P
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.35	0.2	09/02/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.3	*	09/03/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	09/14/09	RIA*	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.35	0.2	09/14/09	RIA*	Calculation
Chlorophyll-a	*	BRL	*	09/03/09	RIA*	*
Ortho Phos (P) low	mg/L	0.028	0.005	08/27/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	*	09/14/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.28	0.2	09/14/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.40	0.2	09/14/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari
Laboratory Director

$$TN = DON(0.35) + PON(0.28) + NH_4(0.05) + NO_3(0.05) + NO_2(0.02) = 0.732$$

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, September 15, 2009

Town of Plymouth

Att. David Gould

Plymouth MA 02360

Project Name: SW Eel River

Comments:

Project Number:

Collection Date: 08/27/09 Collection Time: 1030

Sampled By: KM

Lab Order Number: WW-91881

Date Received: 08/27/09

Sample Type	Sample Time	Sample Date	Comments			
SW Eel River S-6A A	1030	08/27/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	34	6.0	09/02/09	MC	2540 C
Total Organic Carbon*	mg/L	2.2	*	09/03/09	RIA*	SM 5310 C
Boron	mg/L	0.010	0.010	08/31/09	MC	200.7
Nitrate-N low	mg/L	0.20	0.01	08/27/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	08/27/09	LL	300.0
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.56	0.2	09/02/09	MC	SM4500 NH3 C
Chloride	mg/L	16.8	3.0	08/27/09	LL	300.0
Total Phos (P) low	mg/L	0.057	0.005	09/03/09	MC	4500-P
Ammonia-N low*	mg/L	BRL	0.10	09/01/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.28	0.2	09/02/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.1	*	09/03/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.20	0.2	09/14/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.28	0.2	09/14/09	MC	Calculation
Chlorophyll-a	*	BRL	*	09/03/09	RIA*	*
Ortho Phos (P) low	mg/L	0.035	0.005	08/27/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	*	09/14/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.28	0.2	09/14/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.48	0.2	09/14/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari

Laboratory Director

$$TN = DON(.28) + PON(.28) + NH_4(.05) + NO_3(.20) + NO_2(.002) = .812$$

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
 Date Received: 8/28/09
 Work Order #: 0908-15525

Approved by: _____

Data Reporting

Sample # 001
SAMPLE DESCRIPTION: WW91873 S-1
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 8/27/2009 @ 09:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	1.1	1.1	mg/m ³	SM 10200-H	9/3/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	9/1/09	EVH
TOC Low Level	2.9	0.5	mg/l	SM 5310C	9/3/09	JJP
Dissolved TOC	1.5	0.5	mg/l	EPA 415.1	9/3/09	JJP

Sample # 002
SAMPLE DESCRIPTION: WW91874 S-9A
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 8/27/2009 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	9/3/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	9/1/09	EVH
TOC Low Level	1.6	0.5	mg/l	SM 5310C	9/3/09	JJP
Dissolved TOC	1.5	0.5	mg/l	EPA 415.1	9/3/09	JJP

Sample # 003
SAMPLE DESCRIPTION: WW91875 S-3A
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 8/27/2009 @ 08:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	9/1/09	EVH
TOC Low Level	2.8	0.5	mg/l	SM 5310C	9/3/09	JJP
Dissolved TOC	2.0	0.5	mg/l	EPA 415.1	9/3/09	JJP

Sample # 004
SAMPLE DESCRIPTION: WW91876 S-2B
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 8/27/2009 @ 09:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	9/1/09	EVH
TOC Low Level	1.9	0.5	mg/l	SM 5310C	9/3/09	JJP
Dissolved TOC	1.9	0.5	mg/l	EPA 415.1	9/3/09	JJP

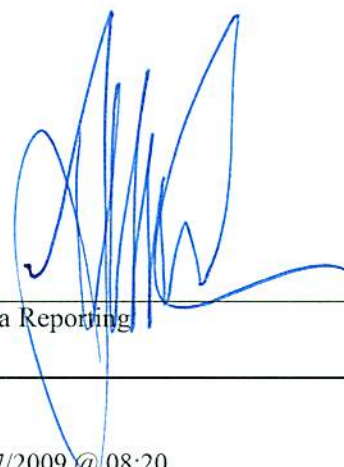
R.I. Analytical Laboratories, Inc.

CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.

Date Received: 8/28/09

Work Order #: 0908-15525

Approved by: 

Data Reporting

Sample # 005

SAMPLE DESCRIPTION: WW91877 S-4A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 8/27/2009 @ 08:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	2.7	1.1	mg/m ³	SM 10200-H	9/3/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	9/1/09	EVH
TOC Low Level	2.3	0.5	mg/l	SM 5310C	9/3/09	JJP
Dissolved TOC	2.3	0.5	mg/l	EPA 415.1	9/3/09	JJP

Sample # 006

SAMPLE DESCRIPTION: WW91878 S-8A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 8/27/2009 @ 08:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	1.6	1.1	mg/m ³	SM 10200-H	9/3/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	9/1/09	EVH
TOC Low Level	2.6	0.5	mg/l	SM 5310C	9/3/09	JJP
Dissolved TOC	2.5	0.5	mg/l	EPA 415.1	9/3/09	JJP

Sample # 007

SAMPLE DESCRIPTION: WW91879 S-8B

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 8/27/2009 @ 08:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	0.12	0.10	mg/l	SM 4500-NH3 C	9/1/09	EVH
TOC Low Level	1.1	0.5	mg/l	SM 5310C	9/3/09	JJP
Dissolved TOC	0.98	0.5	mg/l	EPA 415.1	9/3/09	JJP

Sample # 008

SAMPLE DESCRIPTION: WW91880 S-5B

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 8/27/2009 @ 08:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	9/3/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	9/1/09	EVH
TOC Low Level	2.3	0.5	mg/l	SM 5310C	9/3/09	JJP
Dissolved TOC	2.3	0.5	mg/l	EPA 415.1	9/3/09	JJP

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
Date Received: 8/28/09
Work Order #: 0908-15525

Approved by: 
Data Reporting

Sample # 009

SAMPLE DESCRIPTION: WW91881 S-6A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 8/27/2009 @ 10:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	9/3/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	9/1/09	EVH
TOC Low Level	2.2	0.5	mg/l	SM 5310C	9/3/09	JJP
Dissolved TOC	2.1	0.5	mg/l	EPA 415.1	9/3/09	JJP

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

ww 91873

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/27/09	0930	S-1	1	Plastic	TOC	H2SO4
			1	100 mL Glass	Ortho-Phosphate	NONE
			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
			1	500ml Plastic	Boron	NONE
			1	Liter Glass	Chlorophyll-a Chloride, TDS	NONE
8/27/09	1000	S-9A	1	Plastic	TOC	H2SO4
			1	100 mL Glass	Ortho-Phosphate	NONE
			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
			1	500ml Plastic	Boron	NONE
			1	Liter Glass	Chlorophyll-a Chloride, TDS	NONE

ww 91874

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, Boron, Chlorophyll-a

Relinquished By: Date/Time

Kim Michaelis 8/27/09

Received By: Date/Time:

[Signature] 8/27/09 1315

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

WW 91875

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/27/09	0845	S-3A	1	Plastic	TOC	H2SO4
			1	100 mL Glass	Ortho-Phosphate	NONE
			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN, TOC	H2SO4
			1	500ml Plastic	Boron	NONE
			1	Liter Glass	Chlorophyll-a Chloride, TD	NONE
8/27/09	0900	S-2B	1	Plastic	TOC	H2SO4
			1	100 mL Glass	Ortho-Phosphate	NONE
			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN, TOC	H2SO4
			1	500ml Plastic	Boron	NONE
			1	Liter Glass	Chlorophyll-a Chloride, TD	NONE

WW 91876

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, Boron, Chlorophyll-a

Relinquished By: Date/Time

Kim Michaelis 8/27/09

Received By: Date/Time:

[Signature] 8/27/09 1:15

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/27/09	0820	S-4A	1	Plastic	TOC	H2SO4
			1	100 mL Glass	Ortho-Phosphate	NONE
			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
			1	500ml Plastic	Boron	NONE
			1	Liter Glass	Chlorophyll-a	NONE
					Chloride (DP)	
8/27/09	0830	S-8A	1	Plastic	TOC	H2SO4
			1	100 mL Glass	Ortho-Phosphate	NONE
			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
			1	500ml Plastic	Boron	NONE
			1	Liter Glass	Chlorophyll-a	NONE
					Chloride (DP)	

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, Boron, Chlorophyll-a

Relinquished By: Date/Time

Kim Michaelis 8/27/09

Received By:

Date/Time:

[Signature]

8/27/09

1315

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/27/09	0800	S-8B	1	Plastic	TOC	H2SO4
			1	100 mL Glass	Ortho-Phosphate	NONE
			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
			1	500ml Plastic	Boron	NONE
			1	Liter Glass	Chlorophyll-a	NONE
					Chlorophyll-a, TDS	
8/27/09	0810	S-SB	1	Plastic	TOC	H2SO4
			1	100 mL Glass	Ortho-Phosphate	NONE
			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
			1	500ml Plastic	Boron	NONE
			1	Liter Glass	Chlorophyll-a	NONE
					Chlorophyll-a, TDS	

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, Boron, Chlorophyll-a

Relinquished By: Date/Time

Kim Michaelis 8/27/09

Received By:

Date/Time:

[Signature] 8/27/09

1315

Laboratory:

Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
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Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

NU 91881

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/27/09	1030	S-6A	1	Plastic	TOC	H2SO4
			1	100 mL Glass	Ortho-Phosphate	NONE
			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
			1	500ml Plastic	Boron	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Plastic	TOC	H2SO4
			1	100 mL Glass	Ortho-Phosphate	NONE
			1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
			1	500ml Plastic	Boron	NONE
			1	Liter Glass	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, Boron, Chlorophyll-a

Relinquished By: Date/Time

Kim Michaelis 8/27/09

Received By:

Date/Time:

[Signature] 8/27/09 1315

ENVIROTECH LABORATORIES, INC.

MA CERT. NO.: M-MA 063

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

Wednesday, October 21, 2009

Plymouth Environmental Management
ATTN Kim Michaelis
#11 Lincoln St Plymouth ext. 198

ProjectName: S-14

Comments:

Project Number:

Collection Date:

Collection Time: 1145

Sampled By: K. Michaelis

Lab Order Number: WW-92354

Date Received: 09/30/09

Sample Type	Sample Time	Sample Date	Comments			
S-14 A		09/30/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	48	6.0	10/19/09	MC	2540 C
Total Organic Carbon*	mg/L	4.4*	*	10/08/09	RIA*	SM 5310 C
on	mg/L	BRL	0.010	10/06/09	MC	200.7
ate-N low	mg/L	0.06	0.01	10/01/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	10/01/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	10/08/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
Chloride	mg/L	19.6	3.0	10/01/09	LL	300.0
Total Phos (P) low	mg/L	0.141	0.005	10/10/09	MC	4500-P
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.1*	*	10/08/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Chlorophyll-a	*	2.9*	*	10/09/09	RIA*	*
Ortho Phos (P) low	mg/L	0.029	0.005	10/01/09	MC	4500-P
Particulate Organic Carbon	mg/L	2.3	*	10/19/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Saari
Laboratory Director

$$TN = DON(0.7) + PON(1.1) + NH_4(0.05) + NO_3(0.06) + NO_2(0.002) = 0.312$$

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Wednesday, October 21, 2009

Plymouth Environmental Management
ATTN Kim Michaelis
#11 Lincoln Stre Plymouth ext. 198

ProjectName: S-7

Comments:

Project Number:

Collection Date:

Collection Time: 0910

Sampled By: K. Michaelis

Lab Order Number: WW-92345

Date Received: 09/30/09

Sample Type	Sample Time	Sample Date	Comments			
S-7 A		09/30/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	BRL	0.01	10/01/09	MC	4500-NO3
Total Organic Carbon*	mg/L	2.6*	*	10/08/09	RIA*	SM 5310 C
Ammonia-N low*	mg/L	<0.10*	0.10	10/08/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
Total Phos (P) low	mg/L	0.032	0.005	10/10/09	MC	4500-P
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.8*	*	10/08/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Ortho Phos (P) low	mg/L	0.029	0.005	10/01/09	MC	4500-P
Particulate Organic Carbon	mg/L	0.8	*	10/08/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Saari
Laboratory Director

$$TN = DON(0.1) + PON(0.1) + NH_4(0.05) + NO_3(0.005) + NO_2(0.005) = < 0.26$$

ENVIROTECH LABORATORIES, INC.

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Wednesday, October 21, 2009

Plymouth Environmental Management
ATTN Kim Michaelis
#11 Lincoln St Plymouth ext. 198

ProjectName: Harbor Sampling

Comments:

Project Number:

Collection Date: 09/30/09 **Collection Time:** 0920

Sampled By: K. Michaelis

Lab Order Number: WW-92346

Date Received: 09/30/09

Sample Type	Sample Time	Sample Date	Comments			
S-10 A						
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Nitrate-N/Nitrite-N	mg/L	BRL	0.01	10/01/09	MC	4500-NO3
Total Organic Carbon*	mg/L	4.2	*	10/08/09	RIA*	SM 5310 C
Ammonia-N low*	mg/L	<0.10*	0.10	10/08/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
Total Phos (P) low	mg/L	0.160	0.005	10/10/09	MC	4500-P
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.4*	*	10/08/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Ortho Phos (P) low	mg/L	0.031	0.005	10/01/09	MC	4500-P
Particulate Organic Carbon	mg/L	1.8	*	10/08/09	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	0.2	10/19/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation

BRL=below reportable limits

*see attached

By: 

Ronald J. Saari
Laboratory Director

$$TN = DON(0.1) + PON(0.21) + NH_3(0.05) + NO_3(0.005) + NO_2(0.005) = 0.37$$

ENVIROTECH LABORATORIES, INC.

MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
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Wednesday, October 21, 2009

Plymouth Environmental Management
ATTN Kim Michaelis
#11 Lincoln Stre Plymouth ext. 198

ProjectName: S-5B

Comments:

Project Number:

Collection Date:

Collection Time: 0820

Sampled By: K. Michaelis

Lab Order Number: WW-92348

Date Received: 09/30/09

Sample Type	Sample Time	Sample Date	Comments			
S-5B A		09/30/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	88	6.0	10/19/09	MC	2540 C
Total Organic Carbon*	mg/L	1.3*	*	10/08/09	RIA*	SM 5310 C
on	mg/L	BRL	0.010	10/06/09	MC	200.7
ate-N low	mg/L	0.08	0.01	10/01/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	10/01/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	10/08/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
Chloride	mg/L	34.0	3.0	10/01/09	LL	300.0
Total Phos (P) low	mg/L	0.100	0.005	10/10/09	MC	4500-P
Kjeldhal Nitrogen Dissolved (lo	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.0*	*	10/08/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (I	mg/L	BRL	0.2	10/19/09	MC	Calculation
Dissolved Organic Nitrogen (lo	mg/L	BRL	0.2	10/19/09	MC	Calculation
Chlorophyll-a	*	<1.1*	*	10/09/09	RIA*	*
Ortho Phos (P) low	mg/L	0.025	0.005	10/01/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.50	*	10/19/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Saari
Laboratory Director

$$TN = DON(0.1) + PON(1.1) + NH_4(0.05) + NO_3(1.08) + NO_2(0.002) = 0.332$$

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

8 Jan Sebastian Drive
 Sandwich, MA 02563
 (508)888-6460 1-800-339-6460
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Thursday, October 22, 2009

Plymouth Environmental Management
 ATTN Kim Michaelis
 #11 Lincoln St Plymouth ext. 198

ProjectName: S-8A

Comments:

Project Number:

Collection Date: 09/30/09 Collection Time: 08:30

Sampled By: K. Michaelis

Lab Order Number: WW-92349

Date Received: 09/30/09

Sample Type	Sample Time	Sample Date	Comments			
S-8A A		09/30/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	46	6.0	10/19/09	MC	2540 C
Total Organic Carbon*	mg/L	1.5*	*	10/08/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	10/06/09	MC	200.7
Nitrate-N low	mg/L	0.08	0.01	10/01/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	10/01/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	10/08/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
Chloride	mg/L	34.1	3.0	10/01/09	LL	300.0
Total Phos (P) low	mg/L	0.092	0.005	10/10/09	MC	4500-P
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.5*	*	10/08/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Chlorophyll-a	*	2.4*	*	10/09/09	RIA*	*
Ortho Phos (P) low	mg/L	0.025	0.005	10/01/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5	*	10/19/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari
 Laboratory Director

$$TN = DON(0.1) + PON(0.1) + NH_4(0.05) + NO_3(0.08) + NO_2(0.002) = 0.332$$

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MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
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Thursday, October 22, 2009

Plymouth Environmental Management
ATTN Kim Michaelis
#11 Lincoln St Plymouth ext. 198

ProjectName: S-4A

Comments:

Project Number:

Collection Date: 09/30/09 Collection Time: 10:10

Sampled By: K. Michaelis

Lab Order Number: WW-92350

Date Received: 09/30/09

Sample Type	Sample Time	Sample Date	Comments			
S-4A A		09/30/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	51	6.0	10/19/09	MC	2540 C
Total Organic Carbon*	mg/L	2.7*	*	10/08/09	RIA*	SM 5310 C
Baron	mg/L	BRL	0.010	10/06/09	MC	200.7
ate-N low	mg/L	0.04	0.01	10/01/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	10/01/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	10/08/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.35	0.2	10/19/09	MC	SM4500 NH3 C
Chloride	mg/L	24.4	3.0	10/01/09	LL	300.0
Total Phos (P) low	mg/L	0.165	0.005	10/10/09	MC	4500-P
Kjeldhal Nitrogen Dissolved (io)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.5*	*	10/08/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (i)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Dissolved Organic Nitrogen (io)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Chlorophyll-a	*	2.9*	*	10/09/09	RIA*	*
Ortho Phos (P) low	mg/L	0.031	0.005	10/01/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.50	*	10/19/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.35	0.2	10/19/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation

BRL=below reportable limits

*see attached

Ronald J. Saggi
Laboratory Director

$$TN = DON(0.1) + PON(0.35) + NH_4(0.05) + NO_3(0.04) + NO_2(0.02) = 0.542$$

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

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Wednesday, October 21, 2009

Plymouth Environmental Management
 ATTN Kim Michaelis
 #11 Lincoln St Plymouth ext. 198

ProjectName: S-3A

Comments:

Project Number:

Collection Date:

Collection Time: 1025

Sampled By: K. Michaelis

Lab Order Number: WW-92351

Date Received: 09/30/09

Sample Type	Sample Time	Sample Date	Comments			
S-3A A		09/30/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	43	6.0	10/19/09	MC	2540 C
Total Organic Carbon*	mg/L	1.9*	*	10/08/09	RIA*	SM 5310 C
Ammonia-N low	mg/L	BRL	0.010	10/06/09	MC	200.7
Nitrite-N low	mg/L	0.15	0.01	10/01/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	10/01/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	10/08/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
Chloride	mg/L	25.3	3.0	10/01/09	LL	300.0
Total Phos (P) low	mg/L	0.155	0.005	10/10/09	MC	4500-P
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.8*	*	10/08/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Chlorophyll-a	*	5.6*	*	10/09/09	RIA*	*
Ortho Phos (P) low	mg/L	0.043	0.005	10/01/09	MC	4500-P
Particulate Organic Carbon	mg/L	<0.5*	*	10/19/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation

BRL=below reportable limits

*see attached

By: 
 Ronald J. Saari
 Laboratory Director

$$TN = DON(0.1) + PON(0.1) + NH_4(0.05) + NO_3(1.15) + NO_2(0.002) = 0.402$$

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, October 21, 2009

Plymouth Environmental Management
 ATTN Kim Michaelis
 #11 Lincoln St Plymouth ext. 198

ProjectName: S-2B

Comments:

Project Number:

Collection Date:

Collection Time: 1040

Sampled By: K. Michaelis

Lab Order Number: WW-92352

Date Received: 09/30/09

Sample Type	Sample Time	Sample Date	Comments			
S-2B A		09/30/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	62	6.0	10/19/09	MC	2540 C
Total Organic Carbon*	mg/L	2.3*	*	10/08/09	RIA*	SM 5310 C
Carbon	mg/L	BRL	0.010	10/06/09	MC	200.7
Nitrate-N low	mg/L	BRL	0.01	10/01/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	10/01/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	10/08/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	0.42	0.2	10/19/09	MC	SM4500 NH3 C
Chloride	mg/L	24.1	3.0	10/01/09	LL	300.0
Total Phos (P) low	mg/L	0.183	0.005	10/10/09	MC	4500-P
Kjeldhal Nitrogen Dissolved (low)	mg/L	0.28	0.2	10/19/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	1.8*	*	10/08/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	0.28	0.2	10/19/09	MC	Calculation
Chlorophyll-a	*	8.3*	*	10/09/09	RIA*	*
Ortho Phos (P) low	mg/L	0.031	0.005	10/01/09	MC	4500-P
Particulate Organic Carbon	mg/L	0.5	*	10/19/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.28	0.2	10/19/09	MC	Calculation

BRL=below reportable limits

*see attached

By: 

Ronald J. Squri
 Laboratory Director

$$TN = DON(0.28) + PON(0.1) + NH_4(0.05) + NO_3(0.005) + NO_2(0.002) = 0.437$$

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Wednesday, October 21, 2009

Plymouth Environmental Management
 ATTN Kim Michaelis
 #11 Lincoln St Plymouth ext. 198

ProjectName: S-6A

Comments:

Project Number:

Collection Date:

Collection Time: 1105

Sampled By: K. Michaelis

Lab Order Number: WW-92353

Date Received: 09/30/09

Sample Type	Sample Time	Sample Date	Comments			
S-6A A		09/30/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	46	6.0	10/19/09	MC	2540 C
Total Organic Carbon*	mg/L	3.1*	*	10/08/09	RIA*	SM 5310 C
Ammonia-N low	mg/L	BRL	0.010	10/06/09	MC	200.7
Nitrite-N low	mg/L	0.21	0.01	10/01/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	10/01/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	10/08/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
Chloride	mg/L	17.4	3.0	10/01/09	LL	300.0
Total Phos (P) low	mg/L	0.363	0.005	10/10/09	MC	4500-P
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	2.5*	*	10/08/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.21	0.2	10/19/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Chlorophyll-a	*	3.7*	*	10/09/09	RIA*	*
Ortho Phos (P) low	mg/L	0.032	0.005	10/01/09	MC	4500-P
Particulate Organic Carbon	mg/L	0.6	*	10/19/09	MC	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.21	0.2	10/19/09	MC	Calculation

BRL=below reportable limits

*see attached

By: 

Ronald J. Saari
 Laboratory Director

$$TN = DON(0.1) + PON(0.1) + NH_4(0.05) + NO_3(0.2) + NO_2(0.002) = 0.462$$

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, October 21, 2009

Plymouth Environmental Management
 ATTN Kim Michaelis
 #11 Lincoln St Plymouth ext. 198

ProjectName: S-8B

Comments:

Project Number:

Collection Date:

Collection Time: 0800

Sampled By: K. Michaelis

Lab Order Number: WW-92347

Date Received: 09/30/09

Sample Type	Sample Time	Sample Date	Comments			
S-8B A		09/30/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	538	6.0	10/19/09	MC	2540 C
Total Organic Carbon*	mg/L	2.4*	*	10/08/09	RIA*	SM 5310 C
Iron	mg/L	BRL	0.010	10/06/09	MC	200.7
Nitrate-N low	mg/L	0.17	0.01	10/01/09	LL	300.0
Nitrite-N low	mg/L	BRL	0.004	10/01/09	LL	300.0
Ammonia-N low*	mg/L	<0.10*	0.10	10/08/09	RIA*	SM4500 NH3 C
Kjeldhal Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
Chloride	mg/L	66.7	3.0	10/01/09	LL	300.0
Total Phos (P) low	mg/L	0.107	0.005	10/10/09	MC	4500-P
Kjeldhal Nitrogen Dissolved (low)	mg/L	BRL	0.2	10/19/09	MC	SM4500 NH3 C
TOC Dissolved*	mg/L	<0.5*	*	10/08/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen (low)	mg/L	0.2	0.2	10/19/09	MC	Calculation
Dissolved Organic Nitrogen (low)	mg/L	BRL	0.2	10/19/09	MC	Calculation
Chlorophyll-a	*	<1.1*	*	10/09/09	RIA*	*
Ortho Phos (P) low	mg/L	0.045	0.005	10/01/09	MC	4500-P
Particulate Organic Carbon	mg/L	2.4	*	10/08/09	RIA*	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/19/09	MC	Calculation
Total Dissolved Nitrogen	mg/L	0.2	0.2	10/19/09	MC	Calculation

BRL=below reportable limits

*see attached

By:

Ronald J. Saari
 Laboratory Director

$$TN = DON(1.1) + PON(1.1) + NH_4(0.05) + NO_3(0.17) + NO_2(0.002) = 0.422$$

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: Harbor Sampling -Plymouth MA

Sampler: Kim Michaelis (KM)

DW-92923 WW-92345

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/30/09	0910	S-7	1	Plastic	TOC	H2SO4
9/30/09	↓	S-7	1	Plastic	NO3, NO2 <i>Ortho Phos</i>	NONE
9/30/09	↓	S-7	1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
9/30/09	↓	S-7	1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
<i>DW-92924 WW-92346</i>						
9/30/09	0920	S-10	1	Plastic	TOC	H2SO4
9/30/09	↓	S-10	1	Plastic	NO3, NO2 <i>Ortho Ph</i>	NONE
9/30/09	↓	S-10	1	1 Liter Plastic	Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
9/30/09	↓	S-10	1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4

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

Relinquished By: Date/Time

Kim Michaelis, 9/30/09

Received By: Date/Time:

R. Devalley 09/03/09 1315

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

DW-92925 WW-92347

Date	Time	Sample ID	#bottles	Type:bottle	Analysis	Preservative
9/30/09	0810	S-8B	1	Plastic	TOC	H2SO4
↓	↓	↓	1	1 Liter Plastic	Chloride Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, TKN	H2SO4
↓	↓	↓	1	Plastic	Boron, NO2, NO3, TDS, Ortho	NONE
↓	↓	↓	1	Liter Glass	Chlorophyll-a	NONE
<i>DW-92926 WW-92348</i>						
9/30/09	0820	S-5B	1	Plastic	TOC	H2SO4
↓	↓	↓	1	1 Liter Plastic	Chloride Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, TKN	H2SO4
↓	↓	↓	1	Plastic	Boron, NO2, NO3, TDS, Ortho	NONE
↓	↓	↓	1	Liter Glass	Chlorophyll-a	NONE

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, 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, Boron, Chlorophyll-a, Chloride

Relinquished By: Date/Time

Kim Michaelis 9/30/09

Received By: Date/Time:

Michaelis 09/30/09 135

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

DW 92927 *WW-92349*

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/30/09	0830	S-8A	1	Plastic	TOC	H2SO4
			1	1 Liter Plastic	Chloride Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
			1	Plastic	Boron, NO2, NO3, TDS, Ortho	NONE
			1	Liter Glass	Chlorophyll-a	NONE
<i>DW 92928</i> <i>WW-92350</i>						
9/30/09	1010	S-4A	1	Plastic	TOC	H2SO4
			1	1 Liter Plastic	Chloride Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
			1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
			1	Plastic	Boron, NO2, NO3, TDS, Ortho	NONE
			1	Liter Glass	Chlorophyll-a	NONE

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, 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, Boron, Chlorophyll-a, Chloride

Relinquished By: Date/Time

Kim Michaelis 9/30/09

Received By: Date/Time:

Chavely 09/30/09 1315

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA

Sampler: Kim Michaelis (KM)

DW-92929 *WW-92351*

Date	Time	Sample ID	# bottles	Type/bottle	Analysis	Preservative
9/30/09	1025	S-2A	1	Plastic	TOC	H2SO4
↓	↓	↓	1	1 Liter Plastic	Chloride Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
↓	↓	↓	1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
↓	↓	↓	1	Plastic	Boron, NO2, NO3, TDS, Ortho	NONE
↓	↓	↓	1	Liter Glass	Chlorophyll-a	NONE
<i>DW-92930</i> <i>WW-92352</i>						
9/30/09	1040	S-2B	1	Plastic	TOC	H2SO4
↓	↓	↓	1	1 Liter Plastic	Chloride Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
↓	↓	↓	1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
↓	↓	↓	1	Plastic	Boron, NO2, NO3, TDS, Ortho	NONE
↓	↓	↓	1	Liter Glass	Chlorophyll-a	NONE

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, 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, Boron, Chlorophyll-a, Chloride

Relinquished By: Date/Time

Kim Michaelis *9/30/09*

Received By: Date/Time:

Michaelis *09/30/09 1315*

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

DW 9232 *WW 92353*

Date	Time	Sample ID	#bottles	Type/bottle	Analysis	Preservative
9/30/09	1105	S-6A	1	Plastic	TOC	H2SO4
↓	↓	↓	1	1 Liter Plastic	Chloride Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
↓	↓	↓	1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
↓	↓	↓	1	Plastic	Boron, NO2, NO3, TDS, Ortho	NONE
↓	↓	↓	1	Liter Glass	Chlorophyll-a	NONE
<i>DW 9232</i> <i>WW 92354</i>						
9/30/09	1145	S-14	1	Plastic	TOC	H2SO4
↓	↓	↓	1	1 Liter Plastic	Chloride Dissolved, TKN, NH3, TOC, NO3, NO2	NONE
↓	↓	↓	1	1 Liter Plastic	NH3, T-Phosphorus, TKN	H2SO4
↓	↓	↓	1	Plastic	Boron, NO2, NO3, TDS, Ortho	NONE
↓	↓	↓	1	Liter Glass	Chlorophyll-a	NONE

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, 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, Boron, Chlorophyll-a, Chloride

Relinquished By: Date/Time

Kim Michaelis 9/30/09

Received By: Date/Time:

R. Demerly 09/30/09/1315

CERTIFICATE OF ANALYSIS

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

Date Received: 10/1/09
Date Reported: 10/9/09
P.O. #:
Work Order #: 0910-18082

DESCRIPTION: PLYMOUTH ENV.

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
 Date Received: 10/1/09
 Work Order #: 0910-18082

Approved by: _____

Data Reporting

Sample # 001

SAMPLE DESCRIPTION: WW92345 S-7

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/30/2009 @ 09:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/8/09	KA
TOC Low Level	2.6	0.5	mg/l	EPA 415.2	10/8/09	JJP
Dissolved TOC	1.8	0.5	mg/l	EPA 415.1	10/8/09	JJP

Sample # 002

SAMPLE DESCRIPTION: WW92346 S-10

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/30/2009 @ 09:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/8/09	KA
TOC Low Level	4.2	0.5	mg/l	EPA 415.2	10/8/09	JJP
Dissolved TOC	2.4	0.5	mg/l	EPA 415.1	10/8/09	JJP

Sample # 003

SAMPLE DESCRIPTION: WW92347 S-8B

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/30/2009 @ 08:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/8/09	KA
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	10/9/09	ML
TOC Low Level	2.4	0.5	mg/l	EPA 415.2	10/8/09	JJP
Dissolved TOC	<0.5	0.5	mg/l	EPA 415.1	10/8/09	JJP

Sample # 004

SAMPLE DESCRIPTION: WW92348 S-5B

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/30/2009 @ 08:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/8/09	KA
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	10/9/09	ML
TOC Low Level	1.3	0.5	mg/l	EPA 415.2	10/8/09	JJP
Dissolved TOC	1.0	0.5	mg/l	EPA 415.1	10/8/09	JJP

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
 Date Received: 10/1/09
 Work Order #: 0910-18082

Approved by: _____

Data Reporting

Sample # 005

SAMPLE DESCRIPTION: WW92349 S-8A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/30/2009 @ 08:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/8/09	KA
Chlorophyll A	2.4	1.1	mg/m ³	SM 10200-H	10/9/09	ML
TOC Low Level	1.5	0.5	mg/l	EPA 415.2	10/8/09	JJP
Dissolved TOC	1.5	0.5	mg/l	EPA 415.1	10/8/09	JJP

Sample # 006

SAMPLE DESCRIPTION: WW92350 S-4A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/30/2009 @ 10:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/8/09	KA
Chlorophyll A	2.9	1.1	mg/m ³	SM 10200-H	10/9/09	ML
TOC Low Level	2.7	0.5	mg/l	EPA 415.2	10/8/09	JJP
Dissolved TOC	2.5	0.5	mg/l	EPA 415.1	10/8/09	JJP

Sample # 007

SAMPLE DESCRIPTION: WW92351 S-3A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/30/2009 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/8/09	KA
Chlorophyll A	5.6	1.1	mg/m ³	SM 10200-H	10/9/09	ML
TOC Low Level	1.9	0.5	mg/l	EPA 415.2	10/8/09	JJP
Dissolved TOC	1.8	0.5	mg/l	EPA 415.1	10/8/09	JJP

Sample # 008

SAMPLE DESCRIPTION: WW92352 S-2B

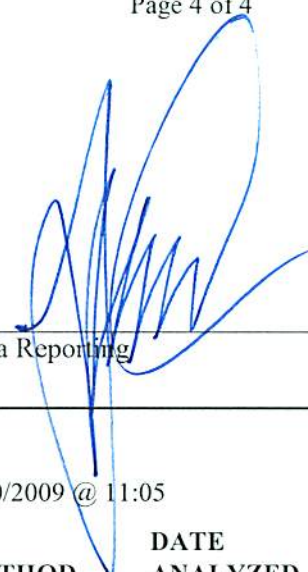
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/30/2009 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/8/09	KA
Chlorophyll A	8.3	1.1	mg/m ³	SM 10200-H	10/9/09	ML
TOC Low Level	2.3	0.5	mg/l	EPA 415.2	10/8/09	JJP
Dissolved TOC	1.8	0.5	mg/l	EPA 415.1	10/8/09	JJP

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
Date Received: 10/1/09
Work Order #: 0910-18082

Approved by: 

Data Reporting

Sample # 009

SAMPLE DESCRIPTION: WW92353 S-6A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/30/2009 @ 11:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/8/09	KA
Chlorophyll A	3.7	1.1	mg/m ³	SM 10200-H	10/9/09	ML
TOC Low Level	3.1	0.5	mg/l	EPA 415.2	10/8/09	JJP
Dissolved TOC	2.5	0.5	mg/l	EPA 415.1	10/8/09	JJP

Sample # 010

SAMPLE DESCRIPTION: WW92354 S-14

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 9/30/2009 @ 08:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/8/09	KA
Chlorophyll A	2.9	1.1	mg/m ³	SM 10200-H	10/9/09	ML
TOC Low Level	4.4	0.5	mg/l	EPA 415.2	10/8/09	JJP
Dissolved TOC	2.1	0.5	mg/l	EPA 415.1	10/8/09	JJP

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, January 12, 2010

Plymouth Environmental Management
 ATTN Kim Michaelis
 #11 Lincoln St Plymouth ext. 198

ProjectName: Eel River

Comments:

Project Number:

Collection Date: 10/21/09 **Collection Time:** 1050

Sampled By: Kim Michaelis

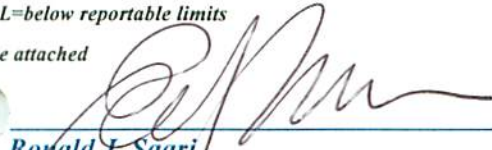
Lab Order Number: WW-92596

Date Received: 10/21/09

Sample Type	Sample Time	Sample Date	Comments			
S-6A A	1050	10/21/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	53.0	6.0	11/02/09	MC	2540 C
Total Organic Carbon*	mg/L	1.4	0.5	10/29/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	10/26/09	MC	200.7
Nitrate-N	mg/L	0.30	0.01	10/22/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	10/22/09	LL	300.0
Ammonia-N *	mg/L	<0.10	0.10	10/29/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	BRL	0.2	11/03/09	MC	SM4500 NH3 C
Chloride	mg/L	17.3	3.0	10/22/09	LL	300.0
Total Phos (P)	mg/L	0.103	0.005	10/30/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.2	11/05/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	1.4	0.5	10/29/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.40	0.2	10/29/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	10/29/09	Calculation	Calculation
Chlorophyll-a	*	<1.1	*	10/29/09	RIA*	*
Ortho Phos (P)	mg/L	0.100	0.005	10/22/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	10/29/09	calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/30/09	calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.50	0.2	10/30/09	calculation	Calculation

BRL=below reportable limits

*see attached


 Ronald J. Saari
 Laboratory Director

$$TN = DON(0.10) + PON(0.10) + NH_4(0.05) + NO_3(0.30) + NO_2(0.002) = 0.552$$

ENVIROTECH LABORATORIES, INC.

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Tuesday, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln St Plymouth ext. 198

ProjectName: Eel River

Comments:

Project Number:

Collection Date: 10/21/09 **Collection Time:** 0845

Sampled By: Kim Michaelis

Lab Order Number: WW-92597

Date Received: 10/21/09

Sample Type	Sample Time	Sample Date	Comments			
S-8B A	0845	10/21/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	187	6.0	11/02/09	MC	2540 C
Total Organic Carbon*	mg/L	BRL	0.5	10/29/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	10/26/09	MC	200.7
Nitrate-N	mg/L	0.17	0.01	10/22/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	10/22/09	LL	300.0
Ammonia-N *	mg/L	0.12	0.10	10/28/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	BRL	0.2	11/03/09	MC	SM4500 NH3 C
Chloride	mg/L	62.1	3.0	10/22/09	LL	300.0
Total Phos (P)	mg/L	0.095	0.005	10/30/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.2	11/05/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	BRL	0.5	10/29/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.29	0.2	10/30/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Chlorophyll-a	*	<1.1	*	10/29/09	RIA*	*
Ortho Phos (P)	mg/L	0.091	0.005	10/22/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	10/29/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.37	0.2	10/30/09	calculation	Calculation

BRL=below reportable limits

*see attached


Ronald J. Sqari
Laboratory Director

$TN = DON(0.10) + PON(0.10) + NH_4(0.12) + NO_3(0.17) + NO_2(0.002) = 0.492$ Page 1 of 1

ENVIROTECH LABORATORIES, INC.
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Tuesday, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln St Plymouth ext. 198

ProjectName: Eel River

Comments:

Project Number:

Collection Date: 10/21/09 **Collection Time:** 0900

Sampled By: Kim Michaelis

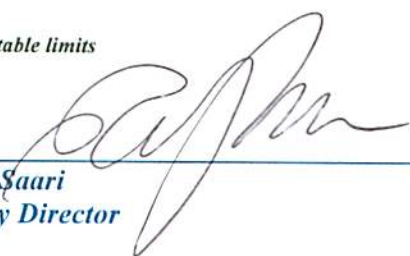
Lab Order Number: WW-92598

Date Received: 10/21/09

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	0900	10/21/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	95	6.0	11/02/09	MC	2540 C
Total Organic Carbon*	mg/L	2.2	0.5	10/29/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	10/26/09	MC	200.7
Nitrate-N	mg/L	0.18	0.01	10/22/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	10/22/09	LL	300.0
Ammonia-N *	mg/L	0.12	0.10	10/28/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	BRL	0.2	11/03/09	MC	SM4500 NH3 C
Chloride	mg/L	33.6	3.0	10/22/09	LL	300.0
Total Phos (P)	mg/L	0.123	0.005	10/30/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.2	11/05/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	2.2	0.5	10/29/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.28	0.2	10/30/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Chlorophyll-a	*	<1.1	*	10/29/09	RIA*	*
Ortho Phos (P)	mg/L	0.096	0.005	10/22/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	10/29/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.38	0.2	10/30/09	Calculation	Calculation

BRL=below reportable limits

*see attached


 Ronald J. Saari
 Laboratory Director

$$TN = DON(0.10) + PON(0.10) + NH_4(0.12) + NO_3(0.18) + NO_2(0.002) = 0.502$$

ENVIROTECH LABORATORIES, INC.
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Tuesday, January 12, 2010

Plymouth Environmental Management
 ATTN Kim Michaelis
 #11 Lincoln St Plymouth ext. 198

ProjectName: Eel River

Comments:

Project Number:

Collection Date: 10/21/09 **Collection Time:** 0910

Sampled By: Kim Michaelis

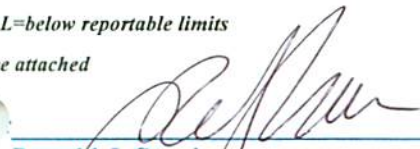
Lab Order Number: WW-92599

Date Received: 10/21/09

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	0910	10/21/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	92	6.0	11/02/09	MC	2540 C
Total Organic Carbon*	mg/L	2.3	0.5	10/29/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	10/26/09	MC	200.7
Nitrate-N	mg/L	0.18	0.01	10/22/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	10/22/09	LL	300.0
Ammonia-N *	mg/L	0.19	0.10	10/29/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	BRL	0.2	11/03/09	MC	SM4500 NH3 C
Chloride	mg/L	33.7	3.0	10/22/09	LL	300.0
Total Phos (P)	mg/L	0.088	0.005	10/30/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.2	11/05/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	2.3	0.5	10/29/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.38	0.2	10/30/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Chlorophyll-a	*	<1.1	*	10/29/09	RIA*	*
Ortho Phos (P)	mg/L	0.083	0.005	10/22/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	10/29/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.38	0.2	10/30/09	MC	Calculation

BRL=below reportable limits

*see attached


 Ronald J. Saari
 Laboratory Director

$$TN = DON(0.18) + PON(0.10) + NH_4(0.19) + NO_3(0.18) + NO_2(0.002) = 0.572$$

ENVIROTECH LABORATORIES, INC.

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Tuesday, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln Stre Plymouth ext. 198

ProjectName: Eel River

Comments:

Project Number:

Collection Date: 10/21/09 **Collection Time:** 0930

Sampled By: Kim Michaelis

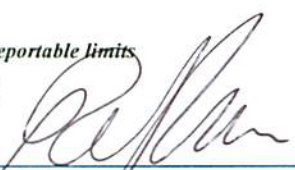
Lab Order Number: WW-92600

Date Received: 10/21/09

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	0930	10/21/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	72	6.0	11/02/09	MC	2540 C
Total Organic Carbon*	mg/L	3.4	0.5	10/29/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	10/26/09	MC	200.7
Ammonia-N	mg/L	0.08	0.01	10/22/09	LL	300.0
Nitrite-N	mg/L	BRL	0.004	10/22/09	LL	300.0
Ammonia-N *	mg/L	BRL	0.10	10/29/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	11/03/09	MC	SM4500 NH3 C
Chloride	mg/L	21.3	3.0	10/22/09	LL	300.0
Total Phos (P)	mg/L	0.087	0.005	10/30/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.2	11/05/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	3.1	0.5	10/29/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Chlorophyll-a	*	<1.1	*	10/29/09	RIA*	*
Ortho Phos (P)	mg/L	0.080	0.005	10/22/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	10/29/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.28	0.2	10/30/09	Calculation	Calculation

BRL=below reportable limits

*see attached


Ronald J. Saari
Laboratory Director

$$TN = DON(0.10) + PON(0.10) + NH_4(0.05) + NO_3(0.08) + NO_2(0.002) = 0.332$$

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

8 Jan Sebastian Drive
Sandwich, MA 02563
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Tuesday, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln Stre Plymouth ext. 198

ProjectName: Eel River

Comments:

Project Number:

Collection Date: 10/21/09 **Collection Time:** 0945

Sampled By: Kim Michaelis

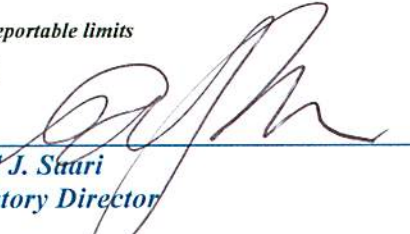
Lab Order Number: WW-92601

Date Received: 10/21/09

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	0945	10/21/09				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method
Total Dissolved Solids	mg/L	64	6.0	11/02/09	MC	2540 C
Total Organic Carbon*	mg/L	1.3	0.5	10/29/09	RIA*	SM 5310 C
Boron	mg/L	BRL	0.010	10/26/09	MC	200.7
Ammonia-N	mg/L	0.25	0.01	10/22/09	LL	300.0
Ammonia-N	mg/L	BRL	0.004	10/22/09	LL	300.0
Ammonia-N *	mg/L	BRL	0.10	10/29/09	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.35	0.2	11/03/09	MC	SM4500 NH3 C
Chloride	mg/L	24.4	3.0	10/22/09	LL	300.0
Total Phos (P)	mg/L	0.087	0.005	10/30/09	MC	4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.2	11/05/09	MC	SM4500 NH3 C
Dissolved Total Organic Carbon	mg/L	1.2	0.5	10/29/09	RIA*	SM 5310 C
Dissolved Inorganic Nitrogen	mg/L	0.35	0.2	10/30/09	Calculation	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Chlorophyll-a	*	<1.1	*	10/29/09	RIA*	*
Ortho Phos (P)	mg/L	0.061	0.005	10/22/09	MC	4500-P
Particulate Organic Carbon	mg/L	BRL	0.5	10/29/09	Calculation	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	0.2	10/30/09	Calculation	Calculation
Total Dissolved Nitrogen	mg/L	0.45	0.2	10/30/09	Calculation	Calculation

BRL=below reportable limits

*see attached


Ronald J. Stari
Laboratory Director

$$TN = DON(0.10) + PON(0.10) + NH_4(0.05) + NO_3(0.25) + NO_2(0.002) = 0.502$$

ENVIROTECH LABORATORIES, INC.
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Tuesday, January 12, 2010

Plymouth Environmental Management

ATTN Kim Michaelis

#11 Lincoln St Plymouth ext. 198

ProjectName: Eel River

Comments:

Project Number:

Collection Date: 10/21/09 **Collection Time:** 1015

Sampled By: Kim Michaelis

Lab Order Number: WW-92602

Date Received: 10/21/09

Sample Type		Sample Time	Sample Date	Comments		
S-2B	A	1015	10/21/09			
Parameters		Units	Test Results	Reportable Limits	Date Analyzed	Analyst Method
Total Dissolved Solids		mg/L	74	6.0	11/02/09	MC 2540 C
Total Organic Carbon*		mg/L	1.9	0.5	10/29/09	RIA* SM 5310 C
Boron		mg/L	BRL	0.010	10/26/09	MC 200.7
Nitrate-N		mg/L	0.17	0.01	10/22/09	LL 300.0
Nitrite-N		mg/L	BRL	0.004	10/22/09	LL 300.0
Ammonia-N *		mg/L	BRL	0.10	10/29/09	RIA* SM4500 NH3 C
Total Kjeldhal Nitrogen		mg/L	0.49	0.2	11/03/09	MC SM4500 NH3 C
Chloride		mg/L	22.9	3.0	10/22/09	LL 300.0
Total Phos (P)		mg/L	0.105	0.005	10/30/09	MC 4500-P
Dissolved Kjeldhal Nitrogen		mg/L	BRL	0.2	11/05/09	MC SM4500 NH3 C
Dissolved Total Organic Carbon		mg/L	1.5	0.5	10/29/09	RIA* SM 5310 C
Dissolved Inorganic Nitrogen		mg/L	0.27	0.2	10/30/09	Calculation Calculation
Dissolved Organic Nitrogen		mg/L	BRL	0.2	10/30/09	Calculation Calculation
Chlorophyll-a		*	2.4	*	10/29/09	RIA* *
Ortho Phos (P)		mg/L	0.072	0.005	10/22/09	MC 4500-P
Particulate Organic Carbon		mg/L	BRL	0.5	10/30/09	Calculation SM 5310 C
Particulate Organic Nitrogen		mg/L	0.29	0.2	10/30/09	Calculation Calculation
Total Dissolved Nitrogen		mg/L	0.37	0.2	10/30/09	Calculation Calculation

BRL=below reportable limits

*see attached

Ronald J. Saari
Laboratory Director

$$TN = DON(0.10) + PON(0.29) + NH_4(0.05) + NO_3(0.17) + NO_2(0.002) = 0.612$$

CERTIFICATE OF ANALYSIS

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

Date Received: 10/26/09
Date Reported: 11/3/09
P.O. #:
Work Order #: 0910-19715

DESCRIPTION: PLYMOUTH ENVIRONMENTAL

Subject sample(s) has/have been analyzed by our Warwick, R.I. laboratory with the attached results.

Reference: All parameters were analyzed by U.S. EPA approved methodologies.
The specific methodologies are listed in the methods column of the Certificate Of Analysis.

Data qualifiers (if present) are explained in full at the end of a given sample's analytical results.

Certification #: RI-033, MA-RI015, CT-PH-0508, ME-RI015
NH-253700 A & B, USDA S-41844

If you have any questions regarding this work, or if we may be of further assistance, please contact our customer service department.

Approved by:



Data Reporting

enc: Chain of Custody

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
 Date Received: 10/26/09
 Work Order #: 0910-19715

Approved by: 

Data Reporting

Sample # 001
SAMPLE DESCRIPTION: WW-92596 S-6A
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/21/2009 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	10/29/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/29/09	MEL
TOC Low Level	1.4	0.5	mg/l	SM 5310C	10/29/09	JJP
Dissolved TOC	1.4	0.5	mg/l	EPA 415.1	10/29/09	JJP

Sample # 002
SAMPLE DESCRIPTION: WW-92597 S-8B
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/21/2009 @ 08:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	10/29/09	ML
Ammonia (as N)	0.12	0.10	mg/l	SM 4500-NH3 C	10/28/09	EVH
TOC Low Level	<0.5	0.5	mg/l	SM 5310C	10/29/09	JJP
Dissolved TOC	<0.5	0.5	mg/l	EPA 415.1	10/29/09	JJP

Sample # 003
SAMPLE DESCRIPTION: WW-92598 S-5B
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/21/2009 @ 09:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	10/29/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/28/09	EVH
TOC Low Level	2.2	0.5	mg/l	SM 5310C	10/29/09	JJP
Dissolved TOC	2.2	0.5	mg/l	EPA 415.1	10/29/09	JJP

Sample # 004
SAMPLE DESCRIPTION: WW-92599 S-8A
SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/21/2009 @ 09:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	10/29/09	ML
Ammonia (as N)	0.19	0.10	mg/l	SM 4500-NH3 C	10/29/09	MEL
TOC Low Level	2.3	0.5	mg/l	SM 5310C	10/29/09	JJP
Dissolved TOC	2.3	0.5	mg/l	EPA 415.1	10/29/09	JJP

R.I. Analytical Laboratories, Inc.
CERTIFICATE OF ANALYSIS

Envirotech Laboratories, Inc.
 Date Received: 10/26/09
 Work Order #: 0910-19715

Approved by: _____

Data Reporting _____

Sample # 005

SAMPLE DESCRIPTION: WW-92600 S-4A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/21/2009 @ 09:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	10/29/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/29/09	MEL
TOC Low Level	3.4	0.5	mg/l	SM 5310C	10/29/09	JJP
Dissolved TOC	3.1	0.5	mg/l	EPA 415.1	10/29/09	JJP

Sample # 006

SAMPLE DESCRIPTION: WW-92601 S-3A

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/21/2009 @ 09:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	<1.1	1.1	mg/m ³	SM 10200-H	10/29/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/29/09	MEL
TOC Low Level	1.3	0.5	mg/l	SM 5310C	10/29/09	JJP
Dissolved TOC	1.2	0.5	mg/l	EPA 415.1	10/29/09	JJP

Sample # 007

SAMPLE DESCRIPTION: WW-92602 S-3A *2B*

SAMPLE TYPE: GRAB

SAMPLE DATE/TIME: 10/21/2009 @ 10:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE ANALYZED	ANALYST
Chlorophyll A	2.4	1.1	mg/m ³	SM 10200-H	10/29/09	ML
Ammonia (as N)	<0.10	0.10	mg/l	SM 4500-NH3 C	10/29/09	MEL
TOC Low Level	1.9	0.5	mg/l	SM 5310C	10/29/09	JJP
Dissolved TOC	1.5	0.5	mg/l	EPA 415.1	10/29/09	JJP

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

W-92599

W-92600

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/21/09	0910	S-8A	1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TKN, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho	NONE
10-21-09	0930	S-4A	1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TKN, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Ortho	NONE

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, 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, Boron, Chlorophyll-a, Chloride

Relinquished By: Date/Time

Kim Michaelis 10/21/09

Received By: Date/Time:

Phaval 10/21/09 1445

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

W-92601

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/21	0945	S-3A	1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TKN, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Other	NONE
10/21	1015	S-2B	1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TKN, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	Glass	Other	NONE

W-92602

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, 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, Boron, Chlorophyll-a, Chloride

Relinquished By: Date/Time

Kim Michaelis 10/21

Received By: Date/Time:

Devalley 10/21/09/1445

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

W92596

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/21	1050	S-6A	1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TKN, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride	NONE
			1	Liter Glass	Chlorophyll-a	NONE
			1	GI	omn	none
			1	1 Liter Plastic	Dissolved	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, TKN, TOC	H2SO4
			1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride	NONE
			1	Liter Glass	Chlorophyll-a	NONE

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, 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, Boron, Chlorophyll-a, Chloride

Relinquished By: Date/Time

Kim Michaelis 10/21/09

Received By: Date/Time:

Kim Michaelis 10/21/09 1445

Laboratory:

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

Chain of Custody**Client:**

Town of Plymouth - DPW Environmental Management Attn: Kim Michaelis
11 Lincoln Street, Plymouth, MA 02360 /508-747-1620 x198, kmichaelis@townhall.plymouth.ma.us
Project Name: SW Eel River -Plymouth MA
Sampler: Kim Michaelis (KM)

W-92597

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10-21-09	0845	3-8B	1	1 Liter Plastic	Dissolved	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, TKN, TOC	H2SO4
↓	↓	↓	1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride	NONE
↓	↓	↓	1	Liter Glass	Chlorophyll-a	NONE
↓	↓	↓	1	Glass	Ortho	NONE
10-21-09	0900	5-5B	1	1 Liter Plastic	Dissolved	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, TKN, TOC	H2SO4
↓	↓	↓	1	Plastic	Boron, NO ₂ , NO ₃ , TDS, Chloride	NONE
↓	↓	↓	1	Liter Glass	Chlorophyll-a	NONE

W-92598

Glass Ortho NONE

NOTE: Analysis needed for reporting in lowest detection possible; Total Dissolved Solids, 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, Boron, Chlorophyll-a, Chloride

Relinquished By: Date/Time

Kim Michaelis 10/21/09

Received By: Date/Time:

Chavally 10/21/09 1445