

ANALYTICAL REPORT

Thursday, August 27, 2009

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

GeoLabs, Inc.
45 Johnson Lane
Braintree MA 02184
Tele: 781 848 7844
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TEL: (508) 747-1620
FAX: (508) 830-4081

Project: Nutrient Management Plan
Location:

Order No.: 0705140

Dear Kim Michaelis:

GeoLabs, Inc. received 3 sample(s) on 5/10/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
 Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

Lab ID: 0705140-001

Collection Date: 5/10/2007 9:00:00 AM

Client Sample ID: Bradford

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL DISSOLVED SOLIDS - E160.1

Analyst: FC

Total Dissolved Solids (Residue, Filterable)	33.0	5.00		mg/L	1	5/11/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: QS

Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	0.00940	0.00800		mg/L	1	5/10/2007
Iron	0.134	0.0600		mg/L	1	5/10/2007

TOTAL MERCURY - E245.1

Analyst: BF

Mercury	ND	0.0005		mg/L	1	5/11/2007
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 7:25:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 7:25:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 7:25:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 7:25:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 7:25:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 7:25:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 7:25:00 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: 27-Aug-09
Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

2-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
2-Hexanone	ND	10.0	µg/L	1	5/11/2007 7:25:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Acetone	ND	50.0	µg/L	1	5/11/2007 7:25:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 7:25:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 7:25:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 7:25:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 7:25:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 7:25:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 7:25:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 7:25:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 7:25:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 7:25:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 7:25:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 7:25:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 7:25:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 7:25:00 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		

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ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 7:25:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 7:25:00 PM
Surr: 1,2-Dichloroethane-d4	114	70-130	%REC	1	5/11/2007 7:25:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	%REC	1	5/11/2007 7:25:00 PM
Surr: Dibromofluoromethane	105	70-130	%REC	1	5/11/2007 7:25:00 PM
Surr: Toluene-d8	95.4	70-130	%REC	1	5/11/2007 7:25:00 PM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: **SUB**

Total Organic Carbon	1.20	1.00	mg/L	1	5/16/2007
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NOTES:

Analyzed by Phoenix Env. Laboratories

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: **WFR**

Ammonia (as N)	ND	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: **RP**

Chloride	10.2	1.50	mg/L	1	5/14/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: **WFR**

Dissolved Inorganic Nitrogen	0.218	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: **RP**

Nitrite (as N)	ND	0.0220	mg/L	1	5/11/2007
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NITRATE - L10-107-04-1-C

Analyst: **RP**

Nitrate (as N)	0.0835	0.0257	mg/L	1	5/11/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: **RP**

Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/11/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: **WFR**

Dissolved Organic Nitrogen	0.498	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: **WFR**

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: **WFR**

Total Dissolved Nitrogen	0.69	0.39	mg/L	1	5/14/2007
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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		

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Reissue Date: 27-Aug-09
Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

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

Analyst: **WFR**

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: **RP**

Total Phosphorous	ND	0.0400	mg/L	1	5/14/2007
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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
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ANALYTICAL REPORT

Reissue Date: 27-Aug-09
 Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

Lab ID: 0705140-002

Collection Date: 5/10/2007 11:10:00 AM

Client Sample ID: A15

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL DISSOLVED SOLIDS - E160.1

Analyst: FC

Total Dissolved Solids (Residue, Filterable)	106	5.00		mg/L	1	5/11/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: QS

Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	ND	0.00800		mg/L	1	5/10/2007
Iron	ND	0.0600		mg/L	1	5/10/2007

TOTAL MERCURY - E245.1

Analyst: BF

Mercury	ND	0.0005		mg/L	1	5/11/2007
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/14/2007 8:01:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/14/2007 8:01:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/14/2007 8:01:00 AM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/14/2007 8:01:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/14/2007 8:01:00 AM
2-Butanone	ND	10.0		µg/L	1	5/14/2007 8:01:00 AM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/14/2007 8:01:00 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: 27-Aug-09
Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

2-Chlorotoluene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
2-Hexanone	ND	10.0	µg/L	1	5/14/2007 8:01:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Acetone	ND	50.0	µg/L	1	5/14/2007 8:01:00 AM
Acrolein	ND	50.0	µg/L	1	5/14/2007 8:01:00 AM
Acrylonitrile	ND	50.0	µg/L	1	5/14/2007 8:01:00 AM
Benzene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Bromobenzene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Bromochloromethane	ND	2.00	µg/L	1	5/14/2007 8:01:00 AM
Bromodichloromethane	ND	2.00	µg/L	1	5/14/2007 8:01:00 AM
Bromoform	ND	2.00	µg/L	1	5/14/2007 8:01:00 AM
Bromomethane	ND	2.00	µg/L	1	5/14/2007 8:01:00 AM
Carbon Disulfide	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/14/2007 8:01:00 AM
Chlorobenzene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Chloroethane	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Chloroform	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Chloromethane	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/14/2007 8:01:00 AM
Dibromochloromethane	ND	2.00	µg/L	1	5/14/2007 8:01:00 AM
Dibromomethane	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Ethylbenzene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/14/2007 8:01:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Methylene Chloride	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Naphthalene	ND	20.0	µg/L	1	5/14/2007 8:01:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Styrene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Toluene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/14/2007 8:01:00 AM
Trichloroethene	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/14/2007 8:01:00 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.

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ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Vinyl Chloride	ND	2.00	µg/L	1	5/14/2007 8:01:00 AM
Xylenes, Total	ND	5.00	µg/L	1	5/14/2007 8:01:00 AM
Surr: 1,2-Dichloroethane-d4	112	70-130	%REC	1	5/14/2007 8:01:00 AM
Surr: 4-Bromofluorobenzene	105	70-130	%REC	1	5/14/2007 8:01:00 AM
Surr: Dibromofluoromethane	105	70-130	%REC	1	5/14/2007 8:01:00 AM
Surr: Toluene-d8	103	70-130	%REC	1	5/14/2007 8:01:00 AM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: SUB

Total Organic Carbon	8.20	1.00	mg/L	1	5/16/2007
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NOTES:

Analyzed by Phoenix Env. Laboratories

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: WFR

Ammonia (as N)	0.153	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	29.7	1.50	mg/L	1	5/14/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	1.12	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	5/11/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	1.01	0.0257	mg/L	1	5/11/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: RP

Phosphate, Orthophosphate (As P)	0.0375	0.0257	mg/L	1	5/11/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	0.366	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	1.5	0.39	mg/L	1	5/14/2007
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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: 27-Aug-09
Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

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

Analyst: **WFR**

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: **RP**

Total Phosphorous 0.0727 0.0400 mg/L 1 5/14/2007

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: 27-Aug-09
Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

Lab ID: 0705140-003

Collection Date: 5/10/2007 1:35:00 PM

Client Sample ID: 7SR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: FC
Total Dissolved Solids (Residue, Filterable)	241	5.00		mg/L	1	5/11/2007
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	ND	0.00800		mg/L	1	5/10/2007
Iron	ND	0.0600		mg/L	1	5/10/2007
TOTAL MERCURY - E245.1						Analyst: BF
Mercury	ND	0.0005		mg/L	1	5/11/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: MR
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/14/2007 8:39:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/14/2007 8:39:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/14/2007 8:39:00 AM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/14/2007 8:39:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/14/2007 8:39:00 AM
2-Butanone	ND	10.0		µg/L	1	5/14/2007 8:39:00 AM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/14/2007 8:39:00 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: 27-Aug-09
Original Reported Date: 24-May-07CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

2-Chlorotoluene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
2-Hexanone	ND	10.0	µg/L	1	5/14/2007 8:39:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Acetone	ND	50.0	µg/L	1	5/14/2007 8:39:00 AM
Acrolein	ND	50.0	µg/L	1	5/14/2007 8:39:00 AM
Acrylonitrile	ND	50.0	µg/L	1	5/14/2007 8:39:00 AM
Benzene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Bromobenzene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Bromochloromethane	ND	2.00	µg/L	1	5/14/2007 8:39:00 AM
Bromodichloromethane	ND	2.00	µg/L	1	5/14/2007 8:39:00 AM
Bromoform	ND	2.00	µg/L	1	5/14/2007 8:39:00 AM
Bromomethane	ND	2.00	µg/L	1	5/14/2007 8:39:00 AM
Carbon Disulfide	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/14/2007 8:39:00 AM
Chlorobenzene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Chloroethane	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Chloroform	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Chloromethane	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/14/2007 8:39:00 AM
Dibromochloromethane	ND	2.00	µg/L	1	5/14/2007 8:39:00 AM
Dibromomethane	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Ethylbenzene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/14/2007 8:39:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Methylene Chloride	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Naphthalene	ND	20.0	µg/L	1	5/14/2007 8:39:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Styrene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Toluene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/14/2007 8:39:00 AM
Trichloroethene	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/14/2007 8:39:00 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: 27-Aug-09
Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

Vinyl Chloride	ND	2.00	µg/L	1	5/14/2007 8:39:00 AM
Xylenes, Total	ND	5.00	µg/L	1	5/14/2007 8:39:00 AM
Surr: 1,2-Dichloroethane-d4	82.1	70-130	%REC	1	5/14/2007 8:39:00 AM
Surr: 4-Bromofluorobenzene	108	70-130	%REC	1	5/14/2007 8:39:00 AM
Surr: Dibromofluoromethane	92.3	70-130	%REC	1	5/14/2007 8:39:00 AM
Surr: Toluene-d8	96.9	70-130	%REC	1	5/14/2007 8:39:00 AM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: **SUB**

Total Organic Carbon	2.00	1.00	mg/L	1	5/16/2007
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NOTES:

Analyzed by Pheonix Env. Laboratories

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: **WFR**

Ammonia (as N)	ND	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: **RP**

Chloride	137	7.50	mg/L	5	5/14/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: **WFR**

Dissolved Inorganic Nitrogen	0.204	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: **RP**

Nitrite (as N)	ND	0.0220	mg/L	1	5/11/2007
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NITRATE - L10-107-04-1-C

Analyst: **RP**

Nitrate (as N)	0.0631	0.0257	mg/L	1	5/11/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: **RP**

Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/11/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: **WFR**

Dissolved Organic Nitrogen	0.462	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: **WFR**

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: **WFR**

Total Dissolved Nitrogen	0.62	0.39	mg/L	1	5/14/2007
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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: 27-Aug-09
Original Reported Date: 24-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705140

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

Analyst: **WFR**

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: **RP**

Total Phosphorous	ND	0.0400	mg/L	1	5/14/2007
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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

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 0705140 ^{DB}

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.
 Environmental Laboratories
 45 Johnson Lane
 Braintree, MA 02184
 Office: 781-848-7844
 Fax: 781-848-7811

Turnaround Time

RUSH: 24hrs 48hrs 72hrs
 STANDARD: 5-7 Days

SPECIAL INSTRUCTIONS

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS LAB HOMEOWNER NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X Town of Plymouth Project Number: X CHANGES REQUESTED? Y N

Address: X 111 Lincoln St NO P.O. BOXES Project Location: X Nutrient Management BY DATE

Plymouth MA 02360 Phone: X 5087471620 X148

Fax: X 5087471620 X148

Contact: X Kim Michalek Purchase Order #: X

E-mail: X Kim Michalek Collected By: X Kim Michalek P. Farin

Received on ice?

ANALYSES REQUESTED

SAMPLE ID	COLLECTION		SAMPLE LOCATION	CONTAINER		M A T R I X	C O M P	G R A B	P R E S	G E O L A B S S A M P L E N U M B E R	Received on ice?							
	D A T E	T I M E		T Y P E	Q U A N T						V O C	P O C - 1	P O C - 2	D I Z D O C	N O S O - P H A	N H ₃ + P	B a r e n H i r o n	M e r c u r y C o p e s
AIS 5/10/07 1110	5/10/07	1110		G	2	GW	X	X	1			X					4°	-
				G	1	GW	X	X	1	5140-002		X						-
				G	1	GW	X	X	7			X						-
				P	1	GW	X	X	7			X						7
				P	1	GW	X	X	3									L2
				P	1	GW	X	X	2									L2

Verbal results given to

by (date/initial)

MATRIX CODES: GW = Ground Water WW = Wastewater DW = Drinking Water SL = Sludge	CONTAINER CODES: A = Amber B = Bag G = Glass P = Plastic S = Summa Canister O = Other V = VOA	PRESERVATIVE CODES: 1 = HCl 5 = NaOH 2 = HNO ₃ 6 = MeOH 3 = H ₂ SO ₄ 7 = ICE 4 = Na ₂ S ₂ O ₃	Relinquished By: Kim Michalek PRINT: Kim Michalek Relinquished By:	Date/Time 5/10/07	Date/Time 5/10/07 3PM
S = Soil A = Air O = Oil OT = Other	Terms: Payment due within 30 days unless other arrangements are made. Past due balances subject to interest and collection costs.		Received By: Kim Michalek		Received By: Kim Michalek
Certified: MA, NH, RI, CT, NY, NJ, PA			Received By GeoLabs: Kim Michalek	5/10/07	5/10/07

CHAIN OF CUSTODY

GeoLabs CHAIN NUMBER: 070514008

CHECKED ITEMS MUST BE FILLED IN

24/48 HOUR RUSHES ONLY WITH APPROVAL OF D. KAHLER OR LAB DIRECTOR

GeoLabs, Inc.

Environmental Laboratories

45 Johnson Lane
Braintree, MA 02184
Office: 781-848-7844
Fax: 781-848-7811

Turnaround Time

RUSH: 24-48hrs **STANDARD:** 5 Days

RUSH APPROVED BY: X _____

Page 3 of 3

SPECIAL INSTRUCTIONS

Note: JOBS WITH INCOMPLETELY FILLED OUT CHAINS WILL NOT BE RUN. CHAIN WILL BE RETURNED TO CLIENT FOR COMPLETION

TYPE OF CLIENT: BUS LAB HOMEOWNER NOTE: HOMEOWNERS, LAW FIRMS MUST PAY WHEN DROPPING OFF SAMPLES

Client: X Town of Plymouth
Address: X 11 Lincoln St NO P.O. BOXES
Plymouth MA 02360
Phone: X 508 747 1620 x198
Fax:
Contact: X Lim Michaelis
E-mail:

Project Number: X
Project Location: X Nutrient Management Plan
Purchase Order #: X
Collected By: X Lim Michaelis P Fesen

CHANGES REQUESTED? Y N
BY DATE

Received on ice?

ANALYSES REQUESTED

SAMPLE ID	COLLECTION		SAMPLE LOCATION	CONTAINER		M A T R I X	C O M P	G R A B	P R E S	G E O L A B S S A M P L E N U M B E R	V O C	P O C - 1	P O C - 2	D I N D I S T O C	C H L O R I D N O 3 - P H A	N H 4 F 2 O 7	B e n z e n e C o p e r	T E M P E R A T U R E	L A B P H
	D A T E	T I M E		T Y P E	Q U A N T														
75R	5/10/07	1335	km PF	G	2	GW	X	X	1		X							40	-
				G	1	GW	X	X	1		X								-
				G	1	GW	X	X	7	5140-003									-
				P	1	GW	X	X	7			X							7
				P	1	GW	X	X	3				X						22
				P	1	GW	X	X	0								X		22

Verbal results given to _____ by (date/initial)

MATRIX CODES: GW = Ground Water WW = Wastewater DW = Drinking Water SL = Sludge S = Soil O = Oil	CONTAINER CODES: A = Amber G = Glass S = Summa Canister O = Other	PRESERVATIVE CODES: 1 = HCl 2 = HNO ₃ 3 = H ₂ SO ₄ 4 = Na ₂ S ₂ O ₃ 5 = NaOH 6 = MeOH 7 = ICE	Relinquished By: _____ Relinquished By: Lim Michaelis Relinquished By: _____	Received By: _____ Received By: _____ Received By GeoLabs: 5/10/07	Date/Time: 5/10/07 5:10 PM Date/Time: _____
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ANALYTICAL REPORT

Thursday, August 27, 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: Nutrient Management Plan
Location:

Order No.: 0705127

Dear Kim Michaelis:

GeoLabs, Inc. received 5 sample(s) on 5/9/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

Lab ID: 0705127-001

Collection Date: 5/8/2007 10:00:00 AM

Client Sample ID: A13

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	193	5.00		mg/L	1	5/10/2007
						Analyst: FC
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	ND	0.0100		mg/L	1	5/10/2007
Iron	2.52	0.0600		mg/L	1	5/10/2007
						Analyst: QS
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	5/11/2007
						Analyst: BF
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 12:41:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 12:41:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 12:41:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 12:41:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 12:41:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 12:41:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 12:41:00 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: 27-Aug-09

Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

2-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
2-Hexanone	ND	10.0	µg/L	1	5/11/2007 12:41:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Acetone	ND	50.0	µg/L	1	5/11/2007 12:41:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 12:41:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 12:41:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 12:41:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 12:41:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 12:41:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 12:41:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 12:41:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 12:41:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 12:41:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 12:41:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 12:41:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 12:41:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 12:41:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth Lab Order: 0705127
Project: Nutrient Management Plan

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 12:41:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 12:41:00 PM
Surr: 1,2-Dichloroethane-d4	92.7	70-130	%REC	1	5/11/2007 12:41:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%REC	1	5/11/2007 12:41:00 PM
Surr: Dibromofluoromethane	99.1	70-130	%REC	1	5/11/2007 12:41:00 PM
Surr: Toluene-d8	97.2	70-130	%REC	1	5/11/2007 12:41:00 PM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: SUB

Total Organic Carbon	3.90	1.00	mg/L	1	5/15/2007
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: WFR

Ammonia (as N)	0.612	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	108	3.00	mg/L	2	5/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.620	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.277	0.0257	mg/L	1	5/10/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: RP

Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	0.214	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	1.1	0.39	mg/L	1	5/14/2007
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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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

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

Analyst: WFR

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.0400 mg/L 1 5/14/2007

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

Lab ID: 0705127-002

Collection Date: 5/8/2007 10:10:00 AM

Client Sample ID: DW-1

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	194	5.00		mg/L	1	5/10/2007
						Analyst: FC
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	ND	0.0100		mg/L	1	5/10/2007
Iron	2.44	0.0600		mg/L	1	5/10/2007
						Analyst: QS
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	5/11/2007
						Analyst: BF
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 1:21:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 1:21:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 1:21:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 1:21:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 1:21:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 1:21:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 1:21:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

2-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
2-Hexanone	ND	10.0	µg/L	1	5/11/2007 1:21:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Acetone	ND	50.0	µg/L	1	5/11/2007 1:21:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 1:21:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 1:21:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 1:21:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 1:21:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 1:21:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 1:21:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 1:21:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 1:21:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 1:21:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 1:21:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 1:21:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 1:21:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 1:21:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 1:21:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 1:21:00 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%REC	1	5/11/2007 1:21:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%REC	1	5/11/2007 1:21:00 PM
Surr: Dibromofluoromethane	107	70-130	%REC	1	5/11/2007 1:21:00 PM
Surr: Toluene-d8	96.1	70-130	%REC	1	5/11/2007 1:21:00 PM

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: **WFR**

Ammonia (as N)	0.673	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: **RP**

Chloride	103	3.00	mg/L	2	5/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: **WFR**

Dissolved Inorganic Nitrogen	0.575	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: **RP**

Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007
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NITRATE - L10-107-04-1-C

Analyst: **RP**

Nitrate (as N)	0.300	0.0257	mg/L	1	5/10/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: **RP**

Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: **WFR**

Dissolved Organic Nitrogen	0.236	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: **WFR**

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: **WFR**

Total Dissolved Nitrogen	1.2	0.39	mg/L	1	5/14/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: **RP**

Total Phosphorous	ND	0.0400	mg/L	1	5/14/2007
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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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

Lab ID: 0705127-003

Collection Date: 5/8/2007 11:15:00 AM

Client Sample ID: GW-1

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	230	5.00		mg/L	1	5/10/2007
						Analyst: FC
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	ND	0.0100		mg/L	1	5/10/2007
Iron	ND	0.0600		mg/L	1	5/10/2007
						Analyst: QS
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	5/11/2007
						Analyst: BF
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 2:01:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 2:01:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 2:01:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 2:01:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 2:01:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 2:01:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 2:01:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

2-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
2-Hexanone	ND	10.0	µg/L	1	5/11/2007 2:01:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Acetone	ND	50.0	µg/L	1	5/11/2007 2:01:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 2:01:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 2:01:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 2:01:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 2:01:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 2:01:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 2:01:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 2:01:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 2:01:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 2:01:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 2:01:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 2:01:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 2:01:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 2:01:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 2:01:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 2:01:00 PM
Surr: 1,2-Dichloroethane-d4	98.4	70-130	%REC	1	5/11/2007 2:01:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%REC	1	5/11/2007 2:01:00 PM
Surr: Dibromofluoromethane	102	70-130	%REC	1	5/11/2007 2:01:00 PM
Surr: Toluene-d8	94.6	70-130	%REC	1	5/11/2007 2:01:00 PM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: SUB

Total Organic Carbon	2.00	1.00	mg/L	1	5/15/2007
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: WFR

Ammonia (as N)	0.508	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	72.1	1.50	mg/L	1	5/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.335	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.224	0.0257	mg/L	1	5/10/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: RP

Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	0.171	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	0.92	0.39	mg/L	1	5/14/2007
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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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

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

Analyst: WFR

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.0413 0.0400 mg/L 1 5/14/2007

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

Lab ID: 0705127-004

Collection Date: 5/8/2007 11:45:00 AM

Client Sample ID: A17

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL DISSOLVED SOLIDS - E160.1

Analyst: FC

Total Dissolved Solids (Residue, Filterable)	76.0	5.00		mg/L	1	5/10/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: QS

Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	ND	0.0100		mg/L	1	5/10/2007
Iron	ND	0.0600		mg/L	1	5/10/2007

TOTAL MERCURY - E245.1

Analyst: BF

Mercury	ND	0.0005		mg/L	1	5/11/2007
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 2:41:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 2:41:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 2:41:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 2:41:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 2:41:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 2:41:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 2:41:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

2-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
2-Hexanone	ND	10.0	µg/L	1	5/11/2007 2:41:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Acetone	ND	50.0	µg/L	1	5/11/2007 2:41:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 2:41:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 2:41:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 2:41:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 2:41:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 2:41:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 2:41:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 2:41:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 2:41:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 2:41:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 2:41:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 2:41:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 2:41:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 2:41:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth Lab Order: 0705127
Project: Nutrient Management Plan

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 2:41:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 2:41:00 PM
Surr: 1,2-Dichloroethane-d4	99.2	70-130	%REC	1	5/11/2007 2:41:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%REC	1	5/11/2007 2:41:00 PM
Surr: Dibromofluoromethane	101	70-130	%REC	1	5/11/2007 2:41:00 PM
Surr: Toluene-d8	95.0	70-130	%REC	1	5/11/2007 2:41:00 PM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: SUB

Total Organic Carbon	ND	1.00	mg/L	1	5/15/2007
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: WFR

Ammonia (as N)	0.428	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	22.2	1.50	mg/L	1	5/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	1.52	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	1.41	0.0257	mg/L	1	5/10/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: RP

Phosphate, Orthophosphate (As P)	0.0294	0.0257	mg/L	1	5/10/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	1.9	0.39	mg/L	1	5/14/2007
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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: 27-Aug-09
 Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

Lab ID: 0705127-005

Collection Date: 5/8/2007 2:20:00 PM

Client Sample ID: 5S

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	435	5.00		mg/L	1	5/10/2007
						Analyst: FC
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	0.0113	0.0100		mg/L	1	5/10/2007
Iron	0.601	0.0600		mg/L	1	5/10/2007
						Analyst: QS
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	5/11/2007
						Analyst: BF
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 3:22:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 3:22:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 3:22:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 3:22:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 3:22:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 3:22:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 3:22:00 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
 II 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

2-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
2-Hexanone	ND	10.0	µg/L	1	5/11/2007 3:22:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Acetone	ND	50.0	µg/L	1	5/11/2007 3:22:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 3:22:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 3:22:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 3:22:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 3:22:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 3:22:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 3:22:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 3:22:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 3:22:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 3:22:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 3:22:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 3:22:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 3:22:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 3:22:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 3:22:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 3:22:00 PM
Surr: 1,2-Dichloroethane-d4	93.5	70-130	%REC	1	5/11/2007 3:22:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%REC	1	5/11/2007 3:22:00 PM
Surr: Dibromofluoromethane	101	70-130	%REC	1	5/11/2007 3:22:00 PM
Surr: Toluene-d8	97.8	70-130	%REC	1	5/11/2007 3:22:00 PM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: **SUB**

Total Organic Carbon	1.80	1.00	mg/L	1	5/15/2007
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: **WFR**

Ammonia (as N)	ND	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: **RP**

Chloride	260	15.0	mg/L	10	5/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: **WFR**

Dissolved Inorganic Nitrogen	0.596	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: **RP**

Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007
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NITRATE - L10-107-04-1-C

Analyst: **RP**

Nitrate (as N)	0.364	0.0257	mg/L	1	5/10/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: **RP**

Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: **WFR**

Dissolved Organic Nitrogen	0.387	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: **WFR**

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: **WFR**

Total Dissolved Nitrogen	0.84	0.39	mg/L	1	5/14/2007
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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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705127

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

Analyst: WFR

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.0682 0.0400 mg/L 1 5/14/2007

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

ANALYTICAL REPORT

Thursday, August 27, 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: Nutrient Management Plan
Location:

Order No.: 0705128

Dear Kim Michaelis:

GeoLabs, Inc. received 4 sample(s) on 5/9/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

Lab ID: 0705128-001
Client Sample ID: 2SR

Collection Date: 5/9/2007 9:10:00 AM
Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: FC
Total Dissolved Solids (Residue, Filterable)	45.0	5.00		mg/L	1	5/10/2007
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Boron	ND	0.0300		mg/L	1	5/10/2007
Iron	0.0844	0.0600		mg/L	1	5/10/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: MR
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 4:03:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 4:03:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 4:03:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 4:03:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 4:03:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
2-Hexanone	ND	10.0		µg/L	1	5/11/2007 4:03:00 PM
4-Chlorotoluene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
4-Isopropyltoluene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	5/11/2007 4:03:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth Lab Order: 0705128
Project: Nutrient Management Plan

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Acetone	ND	50.0	µg/L	1	5/11/2007 4:03:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 4:03:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 4:03:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 4:03:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 4:03:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 4:03:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 4:03:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%REC	1	5/11/2007 4:03:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%REC	1	5/11/2007 4:03:00 PM
Surr: Dibromofluoromethane	107	70-130	%REC	1	5/11/2007 4:03:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth **Lab Order:** 0705128
Project: Nutrient Management Plan

VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: MR
Surr: Toluene-d8	93.7	70-130	%REC	1	5/11/2007 4:03:00 PM	
TOTAL ORGANIC CARBON (TOC) - M 5310B						Analyst: SUB
Total Organic Carbon	1.60	1.00	mg/L	1	5/15/2007	
NOTES:						
Analyzed by Premier Laboratory M-CT008						
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: WFR
Ammonia (as N)	ND	0.130	mg/L	1	5/16/2007	
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	6.63	1.50	mg/L	1	5/10/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: WFR
Dissolved Inorganic Nitrogen	0.890	0.130	mg/L	1	5/16/2007	
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007	
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.762	0.0257	mg/L	1	5/10/2007	
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.356	0.130	mg/L	1	5/16/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	1.2	0.39	mg/L	1	5/14/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0420	0.0400	mg/L	1	5/14/2007	

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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

Lab ID: 0705128-002

Collection Date: 5/9/2007 9:50:00 AM

Client Sample ID: 2DR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: FC
Total Dissolved Solids (Residue, Filterable)	31.0	5.00		mg/L	1	5/10/2007
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Boron	ND	0.0300		mg/L	1	5/10/2007
Iron	1.84	0.0600		mg/L	1	5/10/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: MR
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 4:43:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 4:43:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 4:43:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 4:43:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 4:43:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
2-Hexanone	ND	10.0		µg/L	1	5/11/2007 4:43:00 PM
4-Chlorotoluene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
4-Isopropyltoluene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit
 E Value above quantitation range II 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Acetone	ND	50.0	µg/L	1	5/11/2007 4:43:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 4:43:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 4:43:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 4:43:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 4:43:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 4:43:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 4:43:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Surr: 1,2-Dichloroethane-d4	116	70-130	%REC	1	5/11/2007 4:43:00 PM
Surr: 4-Bromofluorobenzene	99.7	70-130	%REC	1	5/11/2007 4:43:00 PM
Surr: Dibromofluoromethane	101	70-130	%REC	1	5/11/2007 4:43:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth **Lab Order:** 0705128
Project: Nutrient Management Plan

VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: MR
Surr: Toluene-d8	98.7	70-130	%REC	1		5/11/2007 4:43:00 PM
TOTAL ORGANIC CARBON (TOC) - M 5310B						Analyst: SUB
Total Organic Carbon	2.90	1.00	mg/L	1		5/15/2007
NOTES:						
Analyzed by Premier Laboratory M-CT008						
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: WFR
Ammonia (as N)	ND	0.130	mg/L	1		5/16/2007
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	6.64	1.50	mg/L	1		5/10/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: WFR
Dissolved Inorganic Nitrogen	0.200	0.130	mg/L	1		5/16/2007
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220	mg/L	1		5/10/2007
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.0594	0.0257	mg/L	1		5/10/2007
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1		5/10/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.391	0.130	mg/L	1		5/16/2007
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1		5/16/2007
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.57	0.39	mg/L	1		5/14/2007
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0470	0.0400	mg/L	1		5/14/2007

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit
E Value above quantitation range II 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

Lab ID: 0705128-003

Collection Date: 5/9/2007 11:20:00 AM

Client Sample ID: 3D

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL DISSOLVED SOLIDS - E160.1

Analyst: FC

Total Dissolved Solids (Residue, Filterable)	53.0	5.00		mg/L	1	5/10/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: QS

Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	ND	0.00800		mg/L	1	5/10/2007
Iron	ND	0.0600		mg/L	1	5/10/2007

TOTAL MERCURY - E245.1

Analyst: BF

Mercury	ND	0.0005		mg/L	1	5/11/2007
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 5:24:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 5:24:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 5:24:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 5:24:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 5:24:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 5:24:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

2-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
2-Hexanone	ND	10.0	µg/L	1	5/11/2007 5:24:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Acetone	ND	50.0	µg/L	1	5/11/2007 5:24:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 5:24:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 5:24:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 5:24:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 5:24:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 5:24:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 5:24:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 5:24:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	5/11/2007 5:24:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%REC	1	5/11/2007 5:24:00 PM
Surr: Dibromofluoromethane	101	70-130	%REC	1	5/11/2007 5:24:00 PM
Surr: Toluene-d8	98.6	70-130	%REC	1	5/11/2007 5:24:00 PM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: SUB

Total Organic Carbon	1.40	1.00	mg/L	1	5/15/2007
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: WFR

Ammonia (as N)	0.196	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	7.67	1.50	mg/L	1	5/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	1.45	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	1.32	0.0257	mg/L	1	5/10/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: RP

Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	0.300	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	1.8	0.39	mg/L	1	5/14/2007
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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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

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

Analyst: WFR

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.0400	mg/L	1	5/14/2007
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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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

Lab ID: 0705128-004

Collection Date: 5/9/2007 1:30:00 PM

Client Sample ID: A21

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL DISSOLVED SOLIDS - E160.1

Analyst: FC

Total Dissolved Solids (Residue, Filterable)	60.0	5.00		mg/L	1	5/10/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: QS

Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	ND	0.00800		mg/L	1	5/10/2007
Iron	1.05	0.0600		mg/L	1	5/10/2007

TOTAL MERCURY - E245.1

Analyst: BF

Mercury	ND	0.0005		mg/L	1	5/11/2007
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 6:05:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 6:05:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 6:05:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 6:05:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 6:05:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 6:05:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

2-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
2-Hexanone	ND	10.0	µg/L	1	5/11/2007 6:05:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Acetone	ND	50.0	µg/L	1	5/11/2007 6:05:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 6:05:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 6:05:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 6:05:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 6:05:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 6:05:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 6:05:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 6:05:00 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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Surr: 1,2-Dichloroethane-d4	86.7	70-130	%REC	1	5/11/2007 6:05:00 PM
Surr: 4-Bromofluorobenzene	99.5	70-130	%REC	1	5/11/2007 6:05:00 PM
Surr: Dibromofluoromethane	108	70-130	%REC	1	5/11/2007 6:05:00 PM
Surr: Toluene-d8	95.3	70-130	%REC	1	5/11/2007 6:05:00 PM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: **SUB**

Total Organic Carbon	ND	1.00	mg/L	1	5/15/2007
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: **WFR**

Ammonia (as N)	0.183	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: **RP**

Chloride	19.5	1.50	mg/L	1	5/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: **WFR**

Dissolved Inorganic Nitrogen	0.307	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: **RP**

Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007
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NITRATE - L10-107-04-1-C

Analyst: **RP**

Nitrate (as N)	0.0994	0.0257	mg/L	1	5/10/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: **RP**

Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: **WFR**

Dissolved Organic Nitrogen	0.371	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: **WFR**

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: **WFR**

Total Dissolved Nitrogen	0.65	0.39	mg/L	1	5/14/2007
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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: 27-Aug-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

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

Analyst: **WFR**

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: **RP**

Total Phosphorous	0.0559	0.0400	mg/L	1	5/14/2007
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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

Wednesday, June 10, 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: Nutrient Management Plan
Location:

Order No.: 0705128

Dear Kim Michaelis:

GeoLabs, Inc. received 4 sample(s) on 5/9/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for DON and PON. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

Lab ID: 0705128-001

Collection Date: 5/9/2007 9:10:00 AM

Client Sample ID: 2SR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: FC
Total Dissolved Solids (Residue, Filterable)	45.0	5.00		mg/L	1	5/10/2007
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Boron	ND	0.0300		mg/L	1	5/10/2007
Iron	0.0844	0.0600		mg/L	1	5/10/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: MR
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 4:03:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 4:03:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 4:03:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 4:03:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 4:03:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
2-Hexanone	ND	10.0		µg/L	1	5/11/2007 4:03:00 PM
4-Chlorotoluene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
4-Isopropyltoluene	ND	5.00		µg/L	1	5/11/2007 4:03:00 PM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	5/11/2007 4:03:00 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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **MR**

Acetone	ND	50.0	µg/L	1	5/11/2007 4:03:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 4:03:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 4:03:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 4:03:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 4:03:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 4:03:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 4:03:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 4:03:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 4:03:00 PM
Surr: 1,2-Dichloroethane-d4	109	70-130	%REC	1	5/11/2007 4:03:00 PM
Surr: 4-Bromofluorobenzene	107	70-130	%REC	1	5/11/2007 4:03:00 PM
Surr: Dibromofluoromethane	107	70-130	%REC	1	5/11/2007 4:03:00 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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth **Lab Order:** 0705128
Project: Nutrient Management Plan

VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: MR
Surr: Toluene-d8	93.7	70-130	%REC	1	5/11/2007 4:03:00 PM	
TOTAL ORGANIC CARBON (TOC) - M 5310B						Analyst: SUB
Total Organic Carbon	1.60	1.00	mg/L	1	5/15/2007	
NOTES:						
Analyzed by Premier Laboratory M-CT008						
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: WFR
Ammonia (as N)	ND	0.130	mg/L	1	5/16/2007	
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	6.63	1.50	mg/L	1	5/10/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: WFR
Dissolved Inorganic Nitrogen	0.890	0.130	mg/L	1	5/16/2007	
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007	
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.762	0.0257	mg/L	1	5/10/2007	
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.356	0.130	mg/L	1	5/16/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	1.2	0.39	mg/L	1	5/14/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.132	mg/L	1	5/14/2007	

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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

Lab ID: 0705128-002

Collection Date: 5/9/2007 9:50:00 AM

Client Sample ID: 2DR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						Analyst: FC
Total Dissolved Solids (Residue, Filterable)	31.0	5.00		mg/L	1	5/10/2007
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Boron	ND	0.0300		mg/L	1	5/10/2007
Iron	1.84	0.0600		mg/L	1	5/10/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: MR
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 4:43:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 4:43:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 4:43:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 4:43:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 4:43:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
2-Hexanone	ND	10.0		µg/L	1	5/11/2007 4:43:00 PM
4-Chlorotoluene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
4-Isopropyltoluene	ND	5.00		µg/L	1	5/11/2007 4:43:00 PM
4-Methyl-2-Pentanone	ND	5.00		µg/L	1	5/11/2007 4:43:00 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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Acetone	ND	50.0	µg/L	1	5/11/2007 4:43:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 4:43:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 4:43:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 4:43:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 4:43:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 4:43:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 4:43:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 4:43:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 4:43:00 PM
Surr: 1,2-Dichloroethane-d4	116	70-130	%REC	1	5/11/2007 4:43:00 PM
Surr: 4-Bromofluorobenzene	99.7	70-130	%REC	1	5/11/2007 4:43:00 PM
Surr: Dibromofluoromethane	101	70-130	%REC	1	5/11/2007 4:43:00 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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth **Lab Order:** 0705128
Project: Nutrient Management Plan

VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: MR
Surr: Toluene-d8	98.7	70-130	%REC	1	5/11/2007 4:43:00 PM	
TOTAL ORGANIC CARBON (TOC) - M 5310B						Analyst: SUB
Total Organic Carbon	2.90	1.00	mg/L	1	5/15/2007	
NOTES:						
Analyzed by Premier Laboratory M-CT008						
NITROGEN, AMMONIA (AS N) - E350.2						Analyst: WFR
Ammonia (as N)	ND	0.130	mg/L	1	5/16/2007	
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	6.64	1.50	mg/L	1	5/10/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: WFR
Dissolved Inorganic Nitrogen	0.200	0.130	mg/L	1	5/16/2007	
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007	
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.0594	0.0257	mg/L	1	5/10/2007	
ORTHOPHOSPHATE, WATER - E365.2						Analyst: RP
Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.391	0.130	mg/L	1	5/16/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.57	0.39	mg/L	1	5/14/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.132	mg/L	1	5/14/2007	

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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

Lab ID: 0705128-003

Collection Date: 5/9/2007 11:20:00 AM

Client Sample ID: 3D

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL DISSOLVED SOLIDS - E160.1

Analyst: FC

Total Dissolved Solids (Residue, Filterable)	53.0	5.00		mg/L	1	5/10/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: QS

Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	ND	0.00800		mg/L	1	5/10/2007
Iron	ND	0.0600		mg/L	1	5/10/2007

TOTAL MERCURY - E245.1

Analyst: BF

Mercury	ND	0.0005		mg/L	1	5/11/2007
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 5:24:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 5:24:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 5:24:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 5:24:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 5:24:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 5:24:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 5:24:00 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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

2-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
2-Hexanone	ND	10.0	µg/L	1	5/11/2007 5:24:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Acetone	ND	50.0	µg/L	1	5/11/2007 5:24:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 5:24:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 5:24:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 5:24:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 5:24:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 5:24:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 5:24:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 5:24:00 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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 5:24:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 5:24:00 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	5/11/2007 5:24:00 PM
Surr: 4-Bromofluorobenzene	106	70-130	%REC	1	5/11/2007 5:24:00 PM
Surr: Dibromofluoromethane	101	70-130	%REC	1	5/11/2007 5:24:00 PM
Surr: Toluene-d8	98.6	70-130	%REC	1	5/11/2007 5:24:00 PM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: SUB

Total Organic Carbon	1.40	1.00	mg/L	1	5/15/2007
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: WFR

Ammonia (as N)	0.196	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	7.67	1.50	mg/L	1	5/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	1.45	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	1.32	0.0257	mg/L	1	5/10/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: RP

Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	0.300	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	1.8	0.39	mg/L	1	5/14/2007
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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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

Lab ID: 0705128-004

Collection Date: 5/9/2007 1:30:00 PM

Client Sample ID: A21

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - E160.1						
Total Dissolved Solids (Residue, Filterable)	60.0	5.00		mg/L	1	5/10/2007
TOTAL METALS BY ICP - SW6010B						
Boron	ND	0.0300		mg/L	1	5/10/2007
Copper	ND	0.00800		mg/L	1	5/10/2007
Iron	1.05	0.0600		mg/L	1	5/10/2007
TOTAL MERCURY - E245.1						
Mercury	ND	0.0005		mg/L	1	5/11/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	5/11/2007 6:05:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	5/11/2007 6:05:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	5/11/2007 6:05:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	5/11/2007 6:05:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	5/11/2007 6:05:00 PM
2-Butanone	ND	10.0		µg/L	1	5/11/2007 6:05:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	5/11/2007 6:05:00 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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

2-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
2-Hexanone	ND	10.0	µg/L	1	5/11/2007 6:05:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Acetone	ND	50.0	µg/L	1	5/11/2007 6:05:00 PM
Acrolein	ND	50.0	µg/L	1	5/11/2007 6:05:00 PM
Acrylonitrile	ND	50.0	µg/L	1	5/11/2007 6:05:00 PM
Benzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Bromobenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Bromochloromethane	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Bromoform	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Bromomethane	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Chlorobenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Chloroethane	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Chloroform	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Chloromethane	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 6:05:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Dibromomethane	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Ethylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	5/11/2007 6:05:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Methylene Chloride	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Naphthalene	ND	20.0	µg/L	1	5/11/2007 6:05:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Styrene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Toluene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	5/11/2007 6:05:00 PM
Trichloroethene	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	5/11/2007 6:05:00 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: 10-Jun-09
Original Reported Date: 22-May-07

CLIENT: Town of Plymouth
Project: Nutrient Management Plan

Lab Order: 0705128

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: MR

Vinyl Chloride	ND	2.00	µg/L	1	5/11/2007 6:05:00 PM
Xylenes, Total	ND	5.00	µg/L	1	5/11/2007 6:05:00 PM
Surr: 1,2-Dichloroethane-d4	86.7	70-130	%REC	1	5/11/2007 6:05:00 PM
Surr: 4-Bromofluorobenzene	99.5	70-130	%REC	1	5/11/2007 6:05:00 PM
Surr: Dibromofluoromethane	108	70-130	%REC	1	5/11/2007 6:05:00 PM
Surr: Toluene-d8	95.3	70-130	%REC	1	5/11/2007 6:05:00 PM

TOTAL ORGANIC CARBON (TOC) - M 5310B

Analyst: SUB

Total Organic Carbon	ND	1.00	mg/L	1	5/15/2007
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NOTES:

Analyzed by Premier Laboratory M-CT008

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: WFR

Ammonia (as N)	0.183	0.130	mg/L	1	5/16/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	19.5	1.50	mg/L	1	5/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.307	0.130	mg/L	1	5/16/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	5/10/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.0994	0.0257	mg/L	1	5/10/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: RP

Phosphate, Orthophosphate (As P)	ND	0.0257	mg/L	1	5/10/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	0.371	0.130	mg/L	1	5/16/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	5/16/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	0.65	0.39	mg/L	1	5/14/2007
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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

Thursday, August 27, 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: Ground Water - Eel River Watershed
Location: Plymouth, MA

Order No.: 0711174

Dear Kim Michaelis:

GeoLabs, Inc. received 5 sample(s) on 11/14/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

Lab ID: 0711174-001

Collection Date: 11/14/2007

Client Sample ID: A13

Matrix: GROUNDWATER

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

Analyst: JLM

Total Dissolved Solids	133	5.00		mg/L	1	11/15/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: ZYZ

Boron	ND	0.0300		mg/L	1	11/15/2007
Copper	ND	0.0400		mg/L	1	11/15/2007
Iron	3.47	0.0600		mg/L	1	11/15/2007

TOTAL MERCURY - E245.1

Analyst: FC

Mercury	ND	0.0005		mg/L	1	11/15/2007
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/14/2007 9:04:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/14/2007 9:04:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/14/2007 9:04:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/14/2007 9:04:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
2-Butanone	ND	10.0		µg/L	1	11/14/2007 9:04:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/14/2007 9:04:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/14/2007 9:04:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/14/2007 9:04:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Acetone	ND	50.0	µg/L	1	11/14/2007 9:04:00 PM
Acrolein	ND	50.0	µg/L	1	11/14/2007 9:04:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/14/2007 9:04:00 PM
Benzene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/14/2007 9:04:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/14/2007 9:04:00 PM
Bromoform	ND	2.00	µg/L	1	11/14/2007 9:04:00 PM
Bromomethane	ND	2.00	µg/L	1	11/14/2007 9:04:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/14/2007 9:04:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Chloroethane	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Chloroform	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Chloromethane	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/14/2007 9:04:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/14/2007 9:04:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/14/2007 9:04:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Naphthalene	ND	20.0	µg/L	1	11/14/2007 9:04:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Styrene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Toluene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/14/2007 9:04:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/14/2007 9:04:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Xylenes, Total	ND	5.00	µg/L	1	11/14/2007 9:04:00 PM
Surr: 1,2-Dichloroethane-d4	112	70-130	%REC	1	11/14/2007 9:04:00 PM
Surr: 4-Bromofluorobenzene	114	70-130	%REC	1	11/14/2007 9:04:00 PM
Surr: Dibromofluoromethane	117	70-130	%REC	1	11/14/2007 9:04:00 PM
Surr: Toluene-d8	90.6	70-130	%REC	1	11/14/2007 9:04:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: Admir

Particulate Organic Carbon	2.1	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	0.246	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	94.9	1.50	mg/L	1	11/15/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.295	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	11/15/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.198	0.0257	mg/L	1	11/15/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	0.44	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.117 0.0400 mg/L 1 11/20/2007

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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

Lab ID: 0711174-002

Collection Date: 11/14/2007 9:00:00 AM

Client Sample ID: GW-1

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: JLM
Total Dissolved Solids	203	5.00		mg/L	1	11/15/2007
TOTAL METALS BY ICP - SW6010B						Analyst: ZYZ
Boron	ND	0.0300		mg/L	1	11/15/2007
Copper	ND	0.0400		mg/L	1	11/15/2007
Iron	ND	0.0600		mg/L	1	11/15/2007
TOTAL MERCURY - E245.1						Analyst: FC
Mercury	ND	0.0005		mg/L	1	11/15/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/14/2007 9:46:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/14/2007 9:46:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/14/2007 9:46:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/14/2007 9:46:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
2-Butanone	ND	10.0		µg/L	1	11/14/2007 9:46:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/14/2007 9:46:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/14/2007 9:46:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/14/2007 9:46:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Acetone	ND	50.0	µg/L	1	11/14/2007 9:46:00 PM
Acrolein	ND	50.0	µg/L	1	11/14/2007 9:46:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/14/2007 9:46:00 PM
Benzene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/14/2007 9:46:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/14/2007 9:46:00 PM
Bromoform	ND	2.00	µg/L	1	11/14/2007 9:46:00 PM
Bromomethane	ND	2.00	µg/L	1	11/14/2007 9:46:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/14/2007 9:46:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Chloroethane	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Chloroform	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Chloromethane	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/14/2007 9:46:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/14/2007 9:46:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/14/2007 9:46:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Naphthalene	ND	20.0	µg/L	1	11/14/2007 9:46:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Styrene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Toluene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/14/2007 9:46:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/14/2007 9:46:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Xylenes, Total	ND	5.00	µg/L	1	11/14/2007 9:46:00 PM
Surr: 1,2-Dichloroethane-d4	108	70-130	%REC	1	11/14/2007 9:46:00 PM
Surr: 4-Bromofluorobenzene	116	70-130	%REC	1	11/14/2007 9:46:00 PM
Surr: Dibromofluoromethane	96.2	70-130	%REC	1	11/14/2007 9:46:00 PM
Surr: Toluene-d8	88.8	70-130	%REC	1	11/14/2007 9:46:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: Admir

Particulate Organic Carbon	ND	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	0.175	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	67.4	1.50	mg/L	1	11/15/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.251	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	11/15/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.182	0.0257	mg/L	1	11/15/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	0.45	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.141 0.0400 mg/L 1 11/20/2007

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

Lab ID: 0711174-003

Collection Date: 11/14/2007 1:00:00 PM

Client Sample ID: DW-1

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: JLM
Total Dissolved Solids	168	5.00		mg/L	1	11/15/2007
TOTAL METALS BY ICP - SW6010B						Analyst: ZYZ
Boron	ND	0.0300		mg/L	1	11/15/2007
Copper	ND	0.0400		mg/L	1	11/15/2007
Iron	3.38	0.0600		mg/L	1	11/15/2007
TOTAL MERCURY - E245.1						Analyst: FC
Mercury	ND	0.0005		mg/L	1	11/15/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/14/2007 10:27:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/14/2007 10:27:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/14/2007 10:27:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/14/2007 10:27:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
2-Butanone	ND	10.0		µg/L	1	11/14/2007 10:27:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/14/2007 10:27:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/14/2007 10:27:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/14/2007 10:27:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Acetone	ND	50.0	µg/L	1	11/14/2007 10:27:00 PM
Acrolein	ND	50.0	µg/L	1	11/14/2007 10:27:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/14/2007 10:27:00 PM
Benzene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/14/2007 10:27:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/14/2007 10:27:00 PM
Bromoform	ND	2.00	µg/L	1	11/14/2007 10:27:00 PM
Bromomethane	ND	2.00	µg/L	1	11/14/2007 10:27:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/14/2007 10:27:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Chloroethane	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Chloroform	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Chloromethane	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/14/2007 10:27:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/14/2007 10:27:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/14/2007 10:27:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Naphthalene	ND	20.0	µg/L	1	11/14/2007 10:27:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Styrene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Toluene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/14/2007 10:27:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/14/2007 10:27:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Xylenes, Total	ND	5.00	µg/L	1	11/14/2007 10:27:00 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%REC	1	11/14/2007 10:27:00 PM
Surr: 4-Bromofluorobenzene	140	70-130	S %REC	1	11/14/2007 10:27:00 PM
Surr: Dibromofluoromethane	107	70-130	%REC	1	11/14/2007 10:27:00 PM
Surr: Toluene-d8	106	70-130	%REC	1	11/14/2007 10:27:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: Admir

Particulate Organic Carbon	2.6	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	0.264	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	99.3	1.50	mg/L	1	11/15/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.359	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	11/15/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.198	0.0257	mg/L	1	11/15/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	0.55	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.113 0.0400 mg/L 1 11/20/2007

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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

Lab ID: 0711174-004

Collection Date: 11/14/2007 10:57:00 AM

Client Sample ID: A-17

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: JLM
Total Dissolved Solids	91.0	5.00		mg/L	1	11/15/2007
TOTAL METALS BY ICP - SW6010B						Analyst: ZYZ
Boron	ND	0.0300		mg/L	1	11/15/2007
Copper	ND	0.0400		mg/L	1	11/15/2007
Iron	0.464	0.0600		mg/L	1	11/15/2007
TOTAL MERCURY - E245.1						Analyst: FC
Mercury	ND	0.0005		mg/L	1	11/15/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/14/2007 11:09:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/14/2007 11:09:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/14/2007 11:09:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/14/2007 11:09:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
2-Butanone	ND	10.0		µg/L	1	11/14/2007 11:09:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/14/2007 11:09:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/14/2007 11:09:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/14/2007 11:09:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Acetone	ND	50.0	µg/L	1	11/14/2007 11:09:00 PM
Acrolein	ND	50.0	µg/L	1	11/14/2007 11:09:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/14/2007 11:09:00 PM
Benzene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/14/2007 11:09:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/14/2007 11:09:00 PM
Bromoform	ND	2.00	µg/L	1	11/14/2007 11:09:00 PM
Bromomethane	ND	2.00	µg/L	1	11/14/2007 11:09:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/14/2007 11:09:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Chloroethane	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Chloroform	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Chloromethane	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/14/2007 11:09:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/14/2007 11:09:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/14/2007 11:09:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Naphthalene	ND	20.0	µg/L	1	11/14/2007 11:09:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Styrene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Toluene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/14/2007 11:09:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/14/2007 11:09:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Xylenes, Total	ND	5.00	µg/L	1	11/14/2007 11:09:00 PM
Surr: 1,2-Dichloroethane-d4	101	70-130	%REC	1	11/14/2007 11:09:00 PM
Surr: 4-Bromofluorobenzene	119	70-130	%REC	1	11/14/2007 11:09:00 PM
Surr: Dibromofluoromethane	102	70-130	%REC	1	11/14/2007 11:09:00 PM
Surr: Toluene-d8	100	70-130	%REC	1	11/14/2007 11:09:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: Admir

Particulate Organic Carbon	ND	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	36.5	1.50	mg/L	1	11/15/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	1.48	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	11/15/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	1.36	0.0257	mg/L	1	11/15/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	0.342	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	1.8	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.125 0.0400 mg/L 1 11/20/2007

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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

Lab ID: 0711174-005

Collection Date: 11/14/2007 2:22:00 PM

Client Sample ID: A-21

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: JLM
Total Dissolved Solids	52.0	5.00		mg/L	1	11/15/2007
TOTAL METALS BY ICP - SW6010B						Analyst: ZYZ
Boron	ND	0.0300		mg/L	1	11/15/2007
Copper	ND	0.0400		mg/L	1	11/15/2007
Iron	0.996	0.0600		mg/L	1	11/15/2007
TOTAL MERCURY - E245.1						Analyst: FC
Mercury	ND	0.0005		mg/L	1	11/15/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/16/2007 6:49:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/16/2007 6:49:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/16/2007 6:49:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/16/2007 6:49:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
2-Butanone	ND	10.0		µg/L	1	11/16/2007 6:49:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/16/2007 6:49:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/16/2007 6:49:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/16/2007 6:49:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Acetone	ND	50.0	µg/L	1	11/16/2007 6:49:00 PM
Acrolein	ND	50.0	µg/L	1	11/16/2007 6:49:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/16/2007 6:49:00 PM
Benzene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/16/2007 6:49:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/16/2007 6:49:00 PM
Bromoform	ND	2.00	µg/L	1	11/16/2007 6:49:00 PM
Bromomethane	ND	2.00	µg/L	1	11/16/2007 6:49:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/16/2007 6:49:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Chloroethane	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Chloroform	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Chloromethane	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 6:49:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/16/2007 6:49:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/16/2007 6:49:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Naphthalene	ND	20.0	µg/L	1	11/16/2007 6:49:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Styrene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Toluene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 6:49:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/16/2007 6:49:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Xylenes, Total	ND	5.00	µg/L	1	11/16/2007 6:49:00 PM
Surr: 1,2-Dichloroethane-d4	106	70-130	%REC	1	11/16/2007 6:49:00 PM
Surr: 4-Bromofluorobenzene	88.0	70-130	%REC	1	11/16/2007 6:49:00 PM
Surr: Dibromofluoromethane	104	70-130	%REC	1	11/16/2007 6:49:00 PM
Surr: Toluene-d8	104	70-130	%REC	1	11/16/2007 6:49:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: Admir

Particulate Organic Carbon	ND	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	21.0	1.50	mg/L	1	11/15/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	11/15/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	ND	0.0257	mg/L	1	11/15/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	0.0399	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	ND	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711174

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.114 0.0400 mg/L 1 11/20/2007

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

Laboratory:

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

Chain of Custody

0711174

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)**

1174-001

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/14/07	12:12pm	A-13	1	Vial	POC	HCL
11/14/07	12:12pm	A-13	1	Vial	POC	NONE
11/14/07	12:12pm	A-13	2	Vials	VOC	HCL
11/14/07	12:12pm	A-13	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/14/07	12:12pm	A-13	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/14/07	12:12pm	A-13	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/14/07	12:12pm	A-13	1	250 mL Plastic	TDS	NONE
11/14/07	12:12pm	A-13	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/14/07	12:12pm	A-13	1	1 Liter Plastic	PON	H2SO4
			1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 11/14/07

Received By: Date/Time:

Kim Michaelis 11/14/07 3:40

R.B. 11-14-07 3:45

Temp 70

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

Chain of Custody

0711174

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)

1174-008

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/14/07	9:00am	GW-1	1	Vial	POC	HCL
11/14/07	9:00am	GW-1	1	Vial	POC	NONE
11/14/07	9:00am	GW-1	2	Vials	VOC	HCL
11/14/07	9:00am	GW-1	1	500 mL Plastic	NH3, Total Phosphorus 2	H2SO4
11/14/07	9:00am	GW-1	1	500 mL Plastic	Boron, Copper, Iron, Mercury 2	HNO3
11/14/07	9:00am	GW-1	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL 7	NONE
11/14/07	9:00am	GW-1	1	250 mL Plastic	TDS 7	NONE
11/14/07	9:00am	GW-1	1	1 Liter Plastic	TDN, DIN, DON 7	NONE
11/14/07	9:00am	GW-1	1	1 Liter Plastic	PON 2	H2SO4
			1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 11/14/07
Patrick Farah 11/14/07 3:48

Received By: Date/Time:

Kim Michaelis 11/14/07 2:50
R.B. 11-14-07 3:45
 Temp 70

Laboratory:

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

Chain of Custody

071174

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)**

1174-003

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/14/07	1:00pm	DW-1	1	Vial	POC	HCL
11/14/07	1:00pm	DW-1	1	Vial	POC	NONE
11/14/07	1:00pm	DW-1	2	Vials	VOC	HCL
11/14/07	1:00pm	DW-1	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/14/07	1:00pm	DW-1	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/14/07	1:00pm	DW-1	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/14/07	1:00pm	DW-1	1	250 mL Plastic	TDS	NONE
11/14/07	1:00pm	DW-1	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/14/07	1:00pm	DW-1	1	1 Liter Plastic	PON	H2SO4
			1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 11/14/07
Patrick Farah 11/14/07 3:40

Received By: Date/Time:

Kim Michaelis 11/14/07 2:45
R.B. 11-14-07 3:45
Temp 70

Laboratory:

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

Chain of Custody

0711174

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)**

1174-004

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/14/07	10:57AM	A-17	1	Vial	POC	HCL
11/14/07	10:57AM	A-17	1	Vial	POC	NONE
11/14/07	10:57AM	A-17	2	Vials	VOC	HCL
11/14/07	10:57AM	A-17	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/14/07	10:57AM	A-17	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/14/07	10:57AM	A-17	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/14/07	10:57AM	A-17	1	250 mL Plastic	TDS	NONE
11/14/07	10:57AM	A-17	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/14/07	10:57AM	A-17	1	1 Liter Plastic	PON	H2SO4
			1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 11/14/07
Kim Michaelis 11/14/07
Patrick Farah 3:40

Received By: Date/Time:

Kim Michaelis 11/14/07 3:45
R.B. 11-14-07 3:45

Laboratory:

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

Chain of Custody

0711174

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)**

1174-005

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/14/07	2:22pm	A-21	1	Vial	POC	HCL
11/14/07	2:22pm	A-21	1	Vial	POC	NONE
11/14/07	2:22pm	A-21	2	Vials	VOC	HCL
11/14/07	2:22pm	A-21	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/14/07	2:22pm	A-21	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/14/07	2:22pm	A-21	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/14/07	2:22pm	A-21	1	250 mL Plastic	TDS	NONE
11/14/07	2:22pm	A-21	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/14/07	2:22pm	A-21	1	1 Liter Plastic	PON	H2SO4
			1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 11/14/07

Received By: Date/Time:

Kim Michaelis 11/14/07
2:40

R.B. 11-14-07 3:45

Temp 70

ANALYTICAL REPORT

Thursday, August 27, 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: Ground Water - Eel River Watershed
Location:

Order No.: 0711204

Dear Kim Michaelis:

GeoLabs, Inc. received 4 sample(s) on 11/15/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

Lab ID: 0711204-001

Collection Date: 11/15/2007

Client Sample ID: 2DR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: JLM
Total Dissolved Solids	260	5.00		mg/L	1	11/15/2007
TOTAL METALS BY ICP - SW6010B						Analyst: ZYZ
Boron	ND	0.0300		mg/L	1	11/16/2007
Copper	ND	0.0400		mg/L	1	11/16/2007
Iron	4.58	0.0600		mg/L	1	11/16/2007
TOTAL MERCURY - E245.1						Analyst: FC
Mercury	ND	0.0005		mg/L	1	11/21/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/16/2007 7:55:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/16/2007 7:55:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/16/2007 7:55:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/16/2007 7:55:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
2-Butanone	ND	10.0		µg/L	1	11/16/2007 7:55:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/16/2007 7:55:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/16/2007 7:55:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/16/2007 7:55:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Acetone	ND	50.0	µg/L	1	11/16/2007 7:55:00 PM
Acrolein	ND	50.0	µg/L	1	11/16/2007 7:55:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/16/2007 7:55:00 PM
Benzene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/16/2007 7:55:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/16/2007 7:55:00 PM
Bromoform	ND	2.00	µg/L	1	11/16/2007 7:55:00 PM
Bromomethane	ND	2.00	µg/L	1	11/16/2007 7:55:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/16/2007 7:55:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Chloroethane	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Chloroform	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Chloromethane	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 7:55:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/16/2007 7:55:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/16/2007 7:55:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Naphthalene	ND	20.0	µg/L	1	11/16/2007 7:55:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Styrene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Toluene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 7:55:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/16/2007 7:55:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Xylenes, Total	ND	5.00	µg/L	1	11/16/2007 7:55:00 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%REC	1	11/16/2007 7:55:00 PM
Surr: 4-Bromofluorobenzene	88.3	70-130	%REC	1	11/16/2007 7:55:00 PM
Surr: Dibromofluoromethane	106	70-130	%REC	1	11/16/2007 7:55:00 PM
Surr: Toluene-d8	106	70-130	%REC	1	11/16/2007 7:55:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: Admir

Particulate Organic Carbon	ND	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	53.9	1.50	mg/L	1	11/19/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	11/16/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.0532	0.0257	mg/L	1	11/16/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	ND	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.115 0.0400 mg/L 1 11/20/2007

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

Lab ID: 0711204-002

Collection Date: 11/15/2007

Client Sample ID: 2SR

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: JLM
Total Dissolved Solids	46.0	5.00		mg/L	1	11/15/2007
TOTAL METALS BY ICP - SW6010B						Analyst: ZYZ
Boron	ND	0.0300		mg/L	1	11/16/2007
Copper	ND	0.0400		mg/L	1	11/16/2007
Iron	0.680	0.0600		mg/L	1	11/16/2007
TOTAL MERCURY - E245.1						Analyst: FC
Mercury	ND	0.0005		mg/L	1	11/21/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/16/2007 8:28:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/16/2007 8:28:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/16/2007 8:28:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/16/2007 8:28:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
2-Butanone	ND	10.0		µg/L	1	11/16/2007 8:28:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/16/2007 8:28:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/16/2007 8:28:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **JG**

2-Hexanone	ND	10.0	µg/L	1	11/16/2007 8:28:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Acetone	ND	50.0	µg/L	1	11/16/2007 8:28:00 PM
Acrolein	ND	50.0	µg/L	1	11/16/2007 8:28:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/16/2007 8:28:00 PM
Benzene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/16/2007 8:28:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/16/2007 8:28:00 PM
Bromoform	ND	2.00	µg/L	1	11/16/2007 8:28:00 PM
Bromomethane	ND	2.00	µg/L	1	11/16/2007 8:28:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/16/2007 8:28:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Chloroethane	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Chloroform	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Chloromethane	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 8:28:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/16/2007 8:28:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/16/2007 8:28:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Naphthalene	ND	20.0	µg/L	1	11/16/2007 8:28:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Styrene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Toluene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 8:28:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/16/2007 8:28:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Xylenes, Total	ND	5.00	µg/L	1	11/16/2007 8:28:00 PM
Surr: 1,2-Dichloroethane-d4	104	70-130	%REC	1	11/16/2007 8:28:00 PM
Surr: 4-Bromofluorobenzene	94.9	70-130	%REC	1	11/16/2007 8:28:00 PM
Surr: Dibromofluoromethane	107	70-130	%REC	1	11/16/2007 8:28:00 PM
Surr: Toluene-d8	104	70-130	%REC	1	11/16/2007 8:28:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: Admir

Particulate Organic Carbon	ND	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	5.82	1.50	mg/L	1	11/19/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.160	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	11/16/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.0597	0.0257	mg/L	1	11/16/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	ND	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: **RP**

Total Phosphorous 0.120 0.0400 mg/L 1 11/20/2007

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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

Lab ID: 0711204-003

Collection Date: 11/15/2007

Client Sample ID: 7SR

Matrix: GROUNDWATER

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

Analyst: JLM

Total Dissolved Solids	417	5.00		mg/L	1	11/15/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: ZYZ

Boron	ND	0.0300		mg/L	1	11/16/2007
Copper	ND	0.0400		mg/L	1	11/16/2007
Iron	0.127	0.0600		mg/L	1	11/16/2007

TOTAL MERCURY - E245.1

Analyst: FC

Mercury	ND	0.0005		mg/L	1	11/21/2007
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/16/2007 9:02:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/16/2007 9:02:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/16/2007 9:02:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/16/2007 9:02:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
2-Butanone	ND	10.0		µg/L	1	11/16/2007 9:02:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/16/2007 9:02:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/16/2007 9:02:00 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: 27-Aug-09

Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
 Project: Ground Water - Eel River Watershed

Lab Order: 0711204

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/16/2007 9:02:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Acetone	ND	50.0	µg/L	1	11/16/2007 9:02:00 PM
Acrolein	ND	50.0	µg/L	1	11/16/2007 9:02:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/16/2007 9:02:00 PM
Benzene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/16/2007 9:02:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/16/2007 9:02:00 PM
Bromoform	ND	2.00	µg/L	1	11/16/2007 9:02:00 PM
Bromomethane	ND	2.00	µg/L	1	11/16/2007 9:02:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/16/2007 9:02:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Chloroethane	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Chloroform	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Chloromethane	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 9:02:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/16/2007 9:02:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/16/2007 9:02:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Naphthalene	ND	20.0	µg/L	1	11/16/2007 9:02:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Styrene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Toluene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 9:02:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/16/2007 9:02:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Xylenes, Total	ND	5.00	µg/L	1	11/16/2007 9:02:00 PM
Surr: 1,2-Dichloroethane-d4	110	70-130	%REC	1	11/16/2007 9:02:00 PM
Surr: 4-Bromofluorobenzene	96.1	70-130	%REC	1	11/16/2007 9:02:00 PM
Surr: Dibromofluoromethane	108	70-130	%REC	1	11/16/2007 9:02:00 PM
Surr: Toluene-d8	103	70-130	%REC	1	11/16/2007 9:02:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: Admir

Particulate Organic Carbon	ND	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	124	3.00	mg/L	2	11/19/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	11/16/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	ND	0.0257	mg/L	1	11/16/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	0.360	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	0.44	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.164 0.0400 mg/L 1 11/20/2007

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

Lab ID: 0711204-004

Collection Date: 11/15/2007

Client Sample ID: Bradford

Matrix: GROUNDWATER

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

Analyst: JLM

Total Dissolved Solids	31.0	5.00		mg/L	1	11/15/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: ZYZ

Boron	ND	0.0300		mg/L	1	11/16/2007
Copper	ND	0.0400		mg/L	1	11/16/2007
Iron	0.658	0.0600		mg/L	1	11/16/2007

TOTAL MERCURY - E245.1

Analyst: FC

Mercury	ND	0.0005		mg/L	1	11/21/2007
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/16/2007 9:35:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/16/2007 9:35:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/16/2007 9:35:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/16/2007 9:35:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
2-Butanone	ND	10.0		µg/L	1	11/16/2007 9:35:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/16/2007 9:35:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/16/2007 9:35:00 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: 27-Aug-09

Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
 Project: Ground Water - Eel River Watershed

Lab Order: 0711204

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/16/2007 9:35:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Acetone	ND	50.0	µg/L	1	11/16/2007 9:35:00 PM
Acrolein	ND	50.0	µg/L	1	11/16/2007 9:35:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/16/2007 9:35:00 PM
Benzene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/16/2007 9:35:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/16/2007 9:35:00 PM
Bromoform	ND	2.00	µg/L	1	11/16/2007 9:35:00 PM
Bromomethane	ND	2.00	µg/L	1	11/16/2007 9:35:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/16/2007 9:35:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Chloroethane	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Chloroform	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Chloromethane	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 9:35:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/16/2007 9:35:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/16/2007 9:35:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Naphthalene	ND	20.0	µg/L	1	11/16/2007 9:35:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Styrene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Toluene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 9:35:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/16/2007 9:35:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Xylenes, Total	ND	5.00	µg/L	1	11/16/2007 9:35:00 PM
Surr: 1,2-Dichloroethane-d4	103	70-130	%REC	1	11/16/2007 9:35:00 PM
Surr: 4-Bromofluorobenzene	89.2	70-130	%REC	1	11/16/2007 9:35:00 PM
Surr: Dibromofluoromethane	107	70-130	%REC	1	11/16/2007 9:35:00 PM
Surr: Toluene-d8	108	70-130	%REC	1	11/16/2007 9:35:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: Admir

Particulate Organic Carbon	ND	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	9.52	1.50	mg/L	1	11/19/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	1.51	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	11/16/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.932	0.0257	mg/L	1	11/16/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	ND	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	1.1	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711204

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.115 0.0400 mg/L 1 11/20/2007

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

Laboratory:

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

Chain of Custody

0711204

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)**

1204-001

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/15/07	10:57am	2DR	1	Vial	POC	HCL
11/15/07	10:57am	2DR	1	Vial	POC	NONE
11/15/07	10:57am	2DR	2	Vials	VOC	HCL
11/15/07	10:57am	2DR	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/15/07	10:57am	2DK	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/15/07	10:57am	2DK	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/15/07	10:57am	2DR	1	250 mL Plastic	TDS	NONE
11/15/07	10:57am	2DR	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/15/07	10:57am	2DR	1	1 Liter Plastic	PON	H2SO4
11/15/07	10:17am	2SR	1	Vial	POC	HCL
11/15/07	10:17am	2SR	1	Vial	POC	NONE
11/15/07	10:17am	2SR	2	Vials	VOC	HCL
11/15/07	10:17am	2SR	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/15/07	10:17am	2SR	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/15/07	10:17am	2SR	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/15/07	10:17am	2SR	1	250 mL Plastic	TDS	NONE
11/15/07	10:17am	2SR	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/15/07	10:17am	2SR	1	1 Liter Plastic	PON	H2SO4

002

Relinquished By: Date/Time

Kim Michaelis 11/15/07

Received By: Date/Time:

Janille Pega 11/15/07

Laboratory:

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

Chain of Custody

0711204

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)

003

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/15/07	12:12pm	7SR	1	Vial	POC	HCL
11/15/07	12:12pm	7SR	1	Vial	POC	NONE
11/15/07	12:12pm	7SR	2	Vials	VOC	HCL
11/15/07	12:12pm	7SR	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/15/07	12:12pm	7SR	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/15/07	12:12pm	7SR	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/15/07	12:12pm	7SR	1	250 mL Plastic	TDS	NONE
11/15/07	12:12pm	7SR	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/15/07	12:12pm	7SR	1	1 Liter Plastic	PON	H2SO4

004

11/15/07	1:30pm	Bradford	1	Vial	POC	HCL
11/15/07	1:30pm	Bradford	1	Vial	POC	NONE
11/15/07	1:30pm	Bradford	2	Vials	VOC	HCL
11/15/07	1:30pm	Bradford	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/15/07	1:30pm	Bradford	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/15/07	1:30pm	Bradford	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/15/07	1:30pm	Bradford	1	250 mL Plastic	TDS	NONE
11/15/07	1:30pm	Bradford	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/15/07	1:30pm	Bradford	1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 11/15/07

Received By:

Date/Time:

Danielle Rego 11/15/07

ANALYTICAL REPORT

Thursday, August 27, 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: Ground Water - Eel River Watershed
Location:

Order No.: 0711229

Dear Kim Michaelis:

GeoLabs, Inc. received 3 sample(s) on 11/16/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711229

Lab ID: 0711229-001

Collection Date: 11/16/2007 8:42:00 AM

Client Sample ID: 5S

Matrix: GROUNDWATER

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

Analyst: JLM

Total Dissolved Solids	348	5.00		mg/L	1	11/19/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: ZYZ

Boron	ND	0.0300		mg/L	1	11/19/2007
Copper	ND	0.0400		mg/L	1	11/19/2007
Iron	6.02	0.0600		mg/L	1	11/19/2007

TOTAL MERCURY - E245.1

Analyst: FC

Mercury	ND	0.0005		mg/L	1	11/21/2007
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VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/16/2007 11:14:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/16/2007 11:14:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/16/2007 11:14:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/16/2007 11:14:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
2-Butanone	ND	10.0		µg/L	1	11/16/2007 11:14:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/16/2007 11:14:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/16/2007 11:14:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711229

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/16/2007 11:14:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Acetone	ND	50.0	µg/L	1	11/16/2007 11:14:00 PM
Acrolein	ND	50.0	µg/L	1	11/16/2007 11:14:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/16/2007 11:14:00 PM
Benzene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/16/2007 11:14:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/16/2007 11:14:00 PM
Bromoform	ND	2.00	µg/L	1	11/16/2007 11:14:00 PM
Bromomethane	ND	2.00	µg/L	1	11/16/2007 11:14:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/16/2007 11:14:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Chloroethane	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Chloroform	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Chloromethane	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 11:14:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/16/2007 11:14:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/16/2007 11:14:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Naphthalene	ND	20.0	µg/L	1	11/16/2007 11:14:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Styrene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Toluene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 11:14:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/16/2007 11:14:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711229

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **JG**

Xylenes, Total	ND	5.00	µg/L	1	11/16/2007 11:14:00 PM
Surr: 1,2-Dichloroethane-d4	108	70-130	%REC	1	11/16/2007 11:14:00 PM
Surr: 4-Bromofluorobenzene	90.7	70-130	%REC	1	11/16/2007 11:14:00 PM
Surr: Dibromofluoromethane	107	70-130	%REC	1	11/16/2007 11:14:00 PM
Surr: Toluene-d8	106	70-130	%REC	1	11/16/2007 11:14:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: **Admir**

Particulate Organic Carbon	ND	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: **WFR**

Ammonia (as N)	ND	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: **RP**

Chloride	226	7.50	mg/L	5	11/19/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: **WFR**

Dissolved Inorganic Nitrogen	0.951	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: **RP**

Nitrite (as N)	ND	0.0220	mg/L	1	11/16/2007
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NITRATE - L10-107-04-1-C

Analyst: **RP**

Nitrate (as N)	0.900	0.0257	mg/L	1	11/16/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: **WFR**

Phosphorus, Orthophosphate (As P)	0.0889	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: **WFR**

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: **WFR**

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: **WFR**

Total Dissolved Nitrogen	0.99	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711229

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.328 0.0400 mg/L 1 11/20/2007

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711229

Lab ID: 0711229-002

Collection Date: 11/16/2007 9:37:00 AM

Client Sample ID: 3D

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: JLM
Total Dissolved Solids	71.0	5.00		mg/L	1	11/19/2007
TOTAL METALS BY ICP - SW6010B						Analyst: ZYZ
Boron	ND	0.0300		mg/L	1	11/19/2007
Copper	ND	0.0400		mg/L	1	11/19/2007
Iron	ND	0.0600		mg/L	1	11/19/2007
TOTAL MERCURY - E245.1						Analyst: FC
Mercury	ND	0.0005		mg/L	1	11/21/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/16/2007 11:48:00 PM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/16/2007 11:48:00 PM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/16/2007 11:48:00 PM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/16/2007 11:48:00 PM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
2-Butanone	ND	10.0		µg/L	1	11/16/2007 11:48:00 PM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/16/2007 11:48:00 PM
2-Chlorotoluene	ND	5.00		µg/L	1	11/16/2007 11:48:00 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: 27-Aug-09

Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
 Project: Ground Water - Eel River Watershed

Lab Order: 0711229

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/16/2007 11:48:00 PM
4-Chlorotoluene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Acetone	ND	50.0	µg/L	1	11/16/2007 11:48:00 PM
Acrolein	ND	50.0	µg/L	1	11/16/2007 11:48:00 PM
Acrylonitrile	ND	50.0	µg/L	1	11/16/2007 11:48:00 PM
Benzene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Bromobenzene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Bromochloromethane	ND	2.00	µg/L	1	11/16/2007 11:48:00 PM
Bromodichloromethane	ND	2.00	µg/L	1	11/16/2007 11:48:00 PM
Bromoform	ND	2.00	µg/L	1	11/16/2007 11:48:00 PM
Bromomethane	ND	2.00	µg/L	1	11/16/2007 11:48:00 PM
Carbon Disulfide	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/16/2007 11:48:00 PM
Chlorobenzene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Chloroethane	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Chloroform	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Chloromethane	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 11:48:00 PM
Dibromochloromethane	ND	2.00	µg/L	1	11/16/2007 11:48:00 PM
Dibromomethane	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Ethylbenzene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/16/2007 11:48:00 PM
Isopropylbenzene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Methylene Chloride	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Naphthalene	ND	20.0	µg/L	1	11/16/2007 11:48:00 PM
n-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
n-Propylbenzene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
sec-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Styrene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
tert-Butylbenzene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Tetrachloroethene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Toluene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/16/2007 11:48:00 PM
Trichloroethene	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Vinyl Chloride	ND	2.00	µg/L	1	11/16/2007 11:48:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711229

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: **JG**

Xylenes, Total	ND	5.00	µg/L	1	11/16/2007 11:48:00 PM
Surr: 1,2-Dichloroethane-d4	105	70-130	%REC	1	11/16/2007 11:48:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130	%REC	1	11/16/2007 11:48:00 PM
Surr: Dibromofluoromethane	104	70-130	%REC	1	11/16/2007 11:48:00 PM
Surr: Toluene-d8	103	70-130	%REC	1	11/16/2007 11:48:00 PM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: **Admir**

Particulate Organic Carbon	ND	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: **WFR**

Ammonia (as N)	ND	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: **RP**

Chloride	7.90	1.50	mg/L	1	11/19/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: **WFR**

Dissolved Inorganic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: **RP**

Nitrite (as N)	ND	0.0220	mg/L	1	11/16/2007
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NITRATE - L10-107-04-1-C

Analyst: **RP**

Nitrate (as N)	ND	0.0257	mg/L	1	11/16/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: **WFR**

Phosphorus, Orthophosphate (As P)	0.0273	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: **WFR**

Dissolved Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: **WFR**

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: **WFR**

Total Dissolved Nitrogen	ND	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711229

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.111 0.0400 mg/L 1 11/20/2007

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09

Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711229

Lab ID: 0711229-003

Collection Date: 11/16/2007 11:57:00 AM

Client Sample ID: A15

Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: JLM
Total Dissolved Solids	200	5.00		mg/L	1	11/19/2007
TOTAL METALS BY ICP - SW6010B						Analyst: ZYZ
Boron	ND	0.0300		mg/L	1	11/19/2007
Copper	ND	0.0400		mg/L	1	11/19/2007
Iron	0.563	0.0600		mg/L	1	11/19/2007
TOTAL MERCURY - E245.1						Analyst: FC
Mercury	ND	0.0005		mg/L	1	11/21/2007
VOLATILE ORGANIC COMPOUNDS - SW8260B						Analyst: JG
1,1,1,2-Tetrachloroethane	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,1,1-Trichloroethane	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,1,2,2-Tetrachloroethane	ND	2.00		µg/L	1	11/17/2007 12:20:00 AM
1,1,2-Trichloroethane	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,1-Dichloroethane	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,1-Dichloroethene	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,1-Dichloropropene	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,2,3-Trichlorobenzene	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,2,3-Trichloropropane	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,2,4-Trichlorobenzene	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,2,4-Trimethylbenzene	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,2-Dibromo-3-Chloropropane	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,2-Dibromoethane	ND	2.00		µg/L	1	11/17/2007 12:20:00 AM
1,2-Dichlorobenzene	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,2-Dichloroethane	ND	2.00		µg/L	1	11/17/2007 12:20:00 AM
1,2-Dichloropropane	ND	2.00		µg/L	1	11/17/2007 12:20:00 AM
1,3,5-Trimethylbenzene	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,3-Dichlorobenzene	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,3-Dichloropropane	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
1,4-Dichlorobenzene	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
2,2-Dichloropropane	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
2-Butanone	ND	10.0		µg/L	1	11/17/2007 12:20:00 AM
2-Chloroethyl Vinyl Ether	ND	5.00		µg/L	1	11/17/2007 12:20:00 AM
2-Chlorotoluene	ND	5.00		µg/L	1	11/17/2007 12:20:00 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: 27-Aug-09

Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
 Project: Ground Water - Eel River Watershed

Lab Order: 0711229

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

2-Hexanone	ND	10.0	µg/L	1	11/17/2007 12:20:00 AM
4-Chlorotoluene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
4-Isopropyltoluene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
4-Methyl-2-Pentanone	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Acetone	ND	50.0	µg/L	1	11/17/2007 12:20:00 AM
Acrolein	ND	50.0	µg/L	1	11/17/2007 12:20:00 AM
Acrylonitrile	ND	50.0	µg/L	1	11/17/2007 12:20:00 AM
Benzene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Bromobenzene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Bromochloromethane	ND	2.00	µg/L	1	11/17/2007 12:20:00 AM
Bromodichloromethane	ND	2.00	µg/L	1	11/17/2007 12:20:00 AM
Bromoform	ND	2.00	µg/L	1	11/17/2007 12:20:00 AM
Bromomethane	ND	2.00	µg/L	1	11/17/2007 12:20:00 AM
Carbon Disulfide	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Carbon Tetrachloride	ND	2.00	µg/L	1	11/17/2007 12:20:00 AM
Chlorobenzene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Chloroethane	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Chloroform	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Chloromethane	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
cis-1,2-Dichloroethene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
cis-1,3-Dichloropropene	ND	0.500	µg/L	1	11/17/2007 12:20:00 AM
Dibromochloromethane	ND	2.00	µg/L	1	11/17/2007 12:20:00 AM
Dibromomethane	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Dichlorodifluoromethane	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Ethylbenzene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Hexachlorobutadiene	ND	0.500	µg/L	1	11/17/2007 12:20:00 AM
Isopropylbenzene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Methyl Tert-Butyl Ether	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Methylene Chloride	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Naphthalene	ND	20.0	µg/L	1	11/17/2007 12:20:00 AM
n-Butylbenzene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
n-Propylbenzene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
sec-Butylbenzene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Styrene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
tert-Butylbenzene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Tetrachloroethene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Toluene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
trans-1,2-Dichloroethene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
trans-1,3-Dichloropropene	ND	0.500	µg/L	1	11/17/2007 12:20:00 AM
Trichloroethene	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Trichlorofluoromethane	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Vinyl Chloride	ND	2.00	µg/L	1	11/17/2007 12:20:00 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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711229

VOLATILE ORGANIC COMPOUNDS - SW8260B

Analyst: JG

Xylenes, Total	ND	5.00	µg/L	1	11/17/2007 12:20:00 AM
Surr: 1,2-Dichloroethane-d4	108	70-130	%REC	1	11/17/2007 12:20:00 AM
Surr: 4-Bromofluorobenzene	90.9	70-130	%REC	1	11/17/2007 12:20:00 AM
Surr: Dibromofluoromethane	110	70-130	%REC	1	11/17/2007 12:20:00 AM
Surr: Toluene-d8	111	70-130	%REC	1	11/17/2007 12:20:00 AM

PARTICULATE ORGANIC CARBON - E415.1

Analyst: Admir

Particulate Organic Carbon	ND	1.0	mg/L	1	11/20/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130	mg/L	1	11/26/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	37.5	1.50	mg/L	1	11/19/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	1.38	0.130	mg/L	1	12/10/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	mg/L	1	11/16/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	1.29	0.0257	mg/L	1	11/16/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	0.155	0.0257	mg/L	1	11/16/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

Dissolved Organic Nitrogen	0.301	0.130	mg/L	1	12/10/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

Particulate Organic Nitrogen	ND	0.130	mg/L	1	12/10/2007
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TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR

Analyst: WFR

Total Dissolved Nitrogen	1.7	0.39	mg/L	1	12/10/2007
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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: 27-Aug-09
Original Reported Date: 11-Dec-07

CLIENT: Town of Plymouth
Project: Ground Water - Eel River Watershed

Lab Order: 0711229

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.230 0.0400 mg/L 1 11/20/2007

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

0711229

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)**

001-001

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/16/07	8:42AM	55	1	Vial	POC	HCL
11/16/07	8:42AM	55	1	Vial	POC	NONE
11/16/07	8:42AM	55	2	Vials	VOC	HCL
11/16/07	8:42AM	55	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/16/07	8:42AM	55	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/16/07	8:42AM	55	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/16/07	8:42AM	55	1	250 mL Plastic	TDS	NONE
11/16/07	8:42AM	55	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/16/07	8:42AM	55	1	1 Liter Plastic	PON	H2SO4
11/16/07	9:37AM	30	1	Vial	POC	HCL
11/16/07	9:37AM	30	1	Vial	POC	NONE
11/16/07	9:37AM	30	2	Vials	VOC	HCL
11/16/07	9:37AM	30	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/16/07	9:37AM	30	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/16/07	9:37AM	30	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/16/07	9:37AM	30	1	250 mL Plastic	TDS	NONE
11/16/07	9:37AM	30	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/16/07	9:37AM	30	1	1 Liter Plastic	PON	H2SO4

002

Relinquished By: Date/Time

John Michaelis 11/16/07
Ken Farah 11/16/07 2PM

Received By: Date/Time:

Patrick Farah 11/16/07 1PM
R.B. 11-16-07 2:10

Laboratory:

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

Chain of Custody

0711229

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)**

003

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
11/16/07	11:57am	A15	1	Vial	POC	HCL
11/16/07	11:57am	A15	1	Vial	POC	NONE
11/16/07	11:57am	A15	2	Vials	VOC	HCL
11/16/07	11:57am	A15	1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
11/16/07	11:57am	A15	1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
11/16/07	11:57am	A15	1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
11/16/07	11:57am	A15	1	250 mL Plastic	TDS	NONE
11/16/07	11:57am	A15	1	1 Liter Plastic	TDN, DIN, DON	NONE
11/16/07	11:57am	A15	1	1 Liter Plastic	PON	H2SO4
			1	Vial	POC	HCL
			1	Vial	POC	NONE
			2	Vials	VOC	HCL
			1	500 mL Plastic	NH3, Total Phosphorus	H2SO4
			1	500 mL Plastic	Boron, Copper, Iron, Mercury	HNO3
			1	500 mL Plastic	Orthophosphate, NO3, NO2, CL	NONE
			1	250 mL Plastic	TDS	NONE
			1	1 Liter Plastic	TDN, DIN, DON	NONE
			1	1 Liter Plastic	PON	H2SO4

Relinquished By: Date/Time

Kim Michaelis 11/16/07
Ken McGinnis 11/16/07 2PM

Received By: Date/Time:

Ken McGinnis 11/16/07 1PM
R. B. 11-16-07 2¹⁰

ANALYTICAL REPORT

Thursday, August 27, 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:

Location: Eel River, Plymouth, MA

Order No.: 0704128

Dear Kim Michaelis:

GeoLabs, Inc. received 7 sample(s) on 4/10/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

Lab ID: 0704128-001

Collection Date: 4/10/2007 10:50:00 AM

Client Sample ID: S-9A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - E160.1							Analyst: FC
Total Dissolved Solids (Residue, Filterable)	82.0	5.00		mg/L	1	4/12/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	4/15/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	4/14/2007	
NOTES:							
Analyzed by First Light Power Resources MA-00071							
NITROGEN, AMMONIA (AS N) - E350.2							Analyst: WFR
Ammonia (as N)	0.244	0.130		mg/L	1	4/13/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	38.6	1.50		mg/L	1	4/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.575	0.130		mg/L	1	4/18/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	4/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.471	0.0257		mg/L	1	4/11/2007	
ORTHOPHOSPHATE, WATER - E365.2							Analyst: RP
Phosphate, Orthophosphate (As P)	ND	0.0257		mg/L	1	4/12/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.514	0.130		mg/L	1	4/17/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP

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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Notrogen	ND	0.130	mg/L	1	4/17/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	1.2	0.39	mg/L	1	4/17/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0893	0.0400	mg/L	1	4/13/2007	

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: 27-Aug-09
 Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

Lab ID: 0704128-002

Collection Date: 4/10/2007 9:00:00 AM

Client Sample ID: S-5B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - E160.1							Analyst: FC
Total Dissolved Solids (Residue, Filterable)	82.0	5.00		mg/L	1	4/12/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	4/15/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	4/14/2007	
NOTES:	Analyzed by First Light Power Resources MA-00071						
NITROGEN, AMMONIA (AS N) - E350.2							Analyst: WFR
Ammonia (as N)	0.214	0.130		mg/L	1	4/13/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	29.6	1.50		mg/L	1	4/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.174	0.130		mg/L	1	4/18/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	4/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0974	0.0257		mg/L	1	4/11/2007	
ORTHOPHOSPHATE, WATER - E365.2							Analyst: RP
Phosphate, Orthophosphate (As P)	ND	0.0257		mg/L	1	4/12/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.364	0.130		mg/L	1	4/17/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	4/17/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.69	0.39	mg/L	1	4/17/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.643	0.0400	mg/L	1	4/13/2007	

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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

Lab ID: 0704128-003

Collection Date: 4/10/2007 9:25:00 AM

Client Sample ID: S-4A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL DISSOLVED SOLIDS - E160.1

Analyst: FC

Total Dissolved Solids (Residue, Filterable)	50.0	5.00		mg/L	1	4/12/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	4/15/2007
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PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0		mg/L	1	4/14/2007
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NOTES:

Analyzed by First Light Power Resources MA-00071

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: WFR

Ammonia (as N)	0.177	0.130		mg/L	1	4/13/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	20.7	1.50		mg/L	1	4/13/2007
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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	4/18/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220		mg/L	1	4/11/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.0509	0.0257		mg/L	1	4/11/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: RP

Phosphate, Orthophosphate (As P)	ND	0.0257		mg/L	1	4/12/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	0.587	0.130		mg/L	1	4/17/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	4/17/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.82	0.39	mg/L	1	4/17/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0437	0.0400	mg/L	1	4/13/2007	

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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

Lab ID: 0704128-004

Collection Date: 4/10/2007 9:35:00 AM

Client Sample ID: S-8A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL DISSOLVED SOLIDS - E160.1

Analyst: FC

Total Dissolved Solids (Residue, Filterable)	52.0	5.00		mg/L	1	4/12/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	4/15/2007
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PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0		mg/L	1	4/14/2007
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NOTES:

Analyzed by First Light Power Resources MA-00071

NITROGEN, AMMONIA (AS N) - E350.2

Analyst: WFR

Ammonia (as N)	0.208	0.130		mg/L	1	4/13/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	20.5	1.50		mg/L	1	4/13/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: RP

Dissolved Inorganic Nitrogen	0.154	0.130		mg/L	1	4/18/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220		mg/L	1	4/11/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.0507	0.0257		mg/L	1	4/11/2007
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ORTHOPHOSPHATE, WATER - E365.2

Analyst: RP

Phosphate, Orthophosphate (As P)	ND	0.0257		mg/L	1	4/12/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: RP

Dissolved Organic Nitrogen	1.01	0.130		mg/L	1	4/17/2007
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PON-SM4500-NH3-B,C, SM4500-NORG-B,C

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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	4/17/2007	
 TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	1.3	0.39	mg/L	1	4/17/2007	
 TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0652	0.0400	mg/L	1	4/13/2007	

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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

Lab ID: 0704128-005

Collection Date: 4/10/2007 9:50:00 AM

Client Sample ID: S-3A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - E160.1							Analyst: FC
Total Dissolved Solids (Residue, Filterable)	57.0	5.00		mg/L	1	4/12/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	4/15/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	4/14/2007	
NOTES:							
Analyzed by First Light Power Resources MA-00071							
NITROGEN, AMMONIA (AS N) - E350.2							Analyst: WFR
Ammonia (as N)	ND	0.130		mg/L	1	4/13/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	22.0	1.50		mg/L	1	4/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.244	0.130		mg/L	1	4/18/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	4/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.123	0.0257		mg/L	1	4/11/2007	
ORTHOPHOSPHATE, WATER - E365.2							Analyst: RP
Phosphate, Orthophosphate (As P)	ND	0.0257		mg/L	1	4/12/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.696	0.130		mg/L	1	4/17/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	4/17/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.95	0.39	mg/L	1	4/17/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0553	0.0400	mg/L	1	4/13/2007	

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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth **Lab Order:** 0704128
Project:

Lab ID: 0704128-006 **Collection Date:** 4/10/2007 10:10:00 AM
Client Sample ID: S-2B **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - E160.1							Analyst: FC
Total Dissolved Solids (Residue, Filterable)	60.0	5.00		mg/L	1	4/12/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	4/15/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	4/14/2007	
NOTES: Analyzed by First Light Power Resources MA-00071							
NITROGEN, AMMONIA (AS N) - E350.2							Analyst: WFR
Ammonia (as N)	ND	0.130		mg/L	1	4/13/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	20.0	1.50		mg/L	1	4/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.130	0.130		mg/L	1	4/18/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	4/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0324	0.0257		mg/L	1	4/11/2007	
ORTHOPHOSPHATE, WATER - E365.2							Analyst: RP
Phosphate, Orthophosphate (As P)	ND	0.0257		mg/L	1	4/12/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.678	0.130		mg/L	1	4/17/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Notrogen	ND	0.130	mg/L	1	4/17/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.83	0.39	mg/L	1	4/17/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0448	0.0400	mg/L	1	4/13/2007	

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		

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

Lab ID: 0704128-007

Collection Date: 4/10/2007 10:30:00 AM

Client Sample ID: S-1

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - E160.1							Analyst: FC
Total Dissolved Solids (Residue, Filterable)	95.0	5.00		mg/L	1	4/12/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	4/15/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	4/14/2007	
NOTES:	Analyzed by First Light Power Resources MA-00071						
NITROGEN, AMMONIA (AS N) - E350.2							Analyst: WFR
Ammonia (as N)	0.140	0.130		mg/L	1	4/13/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	37.2	1.50		mg/L	1	4/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.512	0.130		mg/L	1	4/18/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	4/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.390	0.0257		mg/L	1	4/11/2007	
ORTHOPHOSPHATE, WATER - E365.2							Analyst: RP
Phosphate, Orthophosphate (As P)	ND	0.0257		mg/L	1	4/12/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.708	0.130		mg/L	1	4/17/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							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: 27-Aug-09
Original Reported Date: 19-Apr-07

CLIENT: Town of Plymouth
Project:

Lab Order: 0704128

PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130	mg/L	1	4/17/2007	
 TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	1.2	0.39	mg/L	1	4/17/2007	
 TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0667	0.0400	mg/L	1	4/13/2007	

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

0704128

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
4/10/07	1050	S-9A	4128-001	Glass Vial	POC ^{W95}	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, TDS TDN, DIN, DON, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
			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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE

4128-001

Relinquished By: Date/Time
KM 4/10/07 1120

Received By: Date/Time:
Kim Michaelis 4/10/07 11:20

Kim Michaelis 4/10/07 1305

Richard Reilly 4/10/07 13105

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

Chain of Custody

0704128

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
4/10/07	0900	S-5B	4/12902	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, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE
4/10/07	0925	S-4A	4/128-003	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, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE

002

003

Relinquished By: Date/Time

Kim Michaelis 4/10/07 11:20

Kim Michaelis 4/10/07 1:05

Received By: Date/Time:

Kim Michaelis 4/10/07 11:20

Robert Beich 4/10/07 13:05

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

Chain of Custody

0204128

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
04/10/07	0935	S-8A	4/28-004	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, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE
4/10/07	0950	S-3A	4/28-005	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, 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 4/10/07 11:20

Kim Michaelis 4/10/07 1:05

Received By: Date/Time:

Kim Michaelis 4/10/07 11:20

Edell Baird 4/10/07 13:05

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

Chain of Custody

0704128

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
4/10/07	1010	S-2B	4/28-006	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, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE
4/10/07	1030	S-1	4/28-007	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, 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
 4/10/07 11:20

Received By: Date/Time:
 4/10/07 11:20

 4/10/07 1:05

 4/10/07 13:05

ANALYTICAL REPORT

Thursday, August 27, 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
Location: Plymouth, MA

Order No.: 0707142

Dear Kim Michaelis:

GeoLabs, Inc. received 9 sample(s) on 7/10/2007 for the analyses presented in the following report.

Report re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-001

Collection Date: 7/9/2007 10:45:00 AM

Client Sample ID: S-3A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	71.0	5.00		mg/L	1	7/10/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
NOTES:							
Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: RP
Ammonia (as N)	0.167	0.130		mg/L	1	7/12/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	23.1	1.50		mg/L	1	7/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.704	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.105	0.0257		mg/L	1	7/11/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.450	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	

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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen	0.73	0.39	mg/L	1	7/18/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.0400	mg/L	1	7/11/2007
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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: 27-Aug-09
Original Reported Date: 24-Jul-07

CLIENT: Town of Plymouth **Lab Order:** 0707142
Project: Surface Water - Eel River

Lab ID: 0707142-002 **Collection Date:** 7/9/2007 11:10:00 AM
Client Sample ID: S-2B **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	65.0	5.00		mg/L	1	7/10/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
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	7/12/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	19.9	1.50		mg/L	1	7/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.176	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	ND	0.0257		mg/L	1	7/11/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.427	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen	0.57	0.39	mg/L	1	7/18/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.0400	mg/L	1	7/11/2007
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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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-003

Collection Date: 7/9/2007 11:35:00 AM

Client Sample ID: S-1

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						
Total Dissolved Solids	95.0	5.00		mg/L	1	7/10/2007
						Analyst: FC
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	7/11/2007
						Analyst: QS
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007
NOTES:						Analyst: SUB
Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	ND	0.130		mg/L	1	7/12/2007
						Analyst: RP
CHLORIDE - L-10-177-07-1-B						
Chloride	37.2	1.50		mg/L	1	7/13/2007
						Analyst: RP
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.499	0.130		mg/L	1	7/23/2007
						Analyst: RP
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007
						Analyst: RP
NITRATE - L10-107-04-1-C						
Nitrate (as N)	0.356	0.0257		mg/L	1	7/11/2007
						Analyst: RP
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007
						Analyst: WFR
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						
Dissolved Organic Nitrogen	0.516	0.130		mg/L	1	7/18/2007
						Analyst: RP
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007

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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen 0.99 0.39 mg/L 1 7/18/2007

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.0532 0.0400 mg/L 1 7/11/2007

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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-004
Client Sample ID: S-9A

Collection Date: 7/9/2007 11:50:00 AM
Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	99.0	5.00		mg/L	1	7/10/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
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	7/12/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	36.5	1.50		mg/L	1	7/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.534	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.419	0.0257		mg/L	1	7/11/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.457	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	

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: 27-Aug-09
Original Reported Date: 24-Jul-07

CLIENT: Town of Plymouth **Lab Order:** 0707142
Project: Surface Water - Eel River

PON-SM4500-NH3-B,C, SM4500-NORG-B,C Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR Analyst: RP
Total Dissolved Nitrogen 1.0 0.39 mg/L 1 7/18/2007

TOTAL PHOSPHOROUS - L10-115-01-1E Analyst: RP
Total Phosphorous 0.0565 0.0400 mg/L 1 7/11/2007

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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-005

Collection Date: 7/9/2007 10:15:00 AM

Client Sample ID: S-8A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	73.0	5.00		mg/L	1	7/10/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
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	7/12/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	20.9	1.50		mg/L	1	7/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.373	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.133	0.0257		mg/L	1	7/11/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	0.0382	0.0257		mg/L	1	7/11/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.438	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	

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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen 0.69 0.39 mg/L 1 7/18/2007

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.0546 0.0400 mg/L 1 7/11/2007

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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-006

Collection Date: 7/9/2007 10:25:00 AM

Client Sample ID: S-4A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	67.0	5.00		mg/L	1	7/10/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: RP
Ammonia (as N)	0.161	0.130		mg/L	1	7/12/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	20.6	1.50		mg/L	1	7/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.166	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0515	0.0257		mg/L	1	7/11/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	0.0301	0.0257		mg/L	1	7/11/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.400	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	

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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen	0.62	0.39	mg/L	1	7/18/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.0400	mg/L	1	7/11/2007
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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: 27-Aug-09
Original Reported Date: 24-Jul-07

CLIENT: Town of Plymouth **Lab Order:** 0707142
Project: Surface Water - Eel River

Lab ID: 0707142-007 **Collection Date:** 7/9/2007 9:45:00 AM
Client Sample ID: S-8B **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							
Total Dissolved Solids	49.0	5.00		mg/L	1	7/10/2007	FC
TOTAL METALS BY ICP - E200.7							
Boron	ND	0.0300		mg/L	1	7/11/2007	QS
PARTICULATE ORGANIC CARBON - E415.1							
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	SUB
NOTES: Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							
Ammonia (as N)	0.137	0.130		mg/L	1	7/12/2007	RP
CHLORIDE - L-10-177-07-1-B							
Chloride	7.96	1.50		mg/L	1	7/13/2007	RP
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							
Dissolved Inorganic Nitrogen	0.784	0.130		mg/L	1	7/23/2007	RP
NITRITE - L10-107-05-1-A							
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007	RP
NITRATE - L10-107-04-1-C							
Nitrate (as N)	0.309	0.0257		mg/L	1	7/11/2007	RP
ORTHOPHOSPHATE, WATER - SM4500-P-E							
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007	WFR
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							
Dissolved Organic Nitrogen	0.392	0.130		mg/L	1	7/18/2007	RP
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen 0.84 0.39 mg/L 1 7/18/2007

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous 0.0446 0.0400 mg/L 1 7/11/2007

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: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-008

Collection Date: 7/9/2007 10:00:00 AM

Client Sample ID: S-5B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	96.0	5.00		mg/L	1	7/10/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
NOTES:							
Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: RP
Ammonia (as N)	0.149	0.130		mg/L	1	7/12/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	33.9	1.50		mg/L	1	7/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.174	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.110	0.0257		mg/L	1	7/11/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	0.0317	0.0257		mg/L	1	7/11/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.568	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	

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: 27-Aug-09
Original Reported Date: 24-Jul-07

CLIENT: Town of Plymouth **Lab Order:** 0707142
Project: Surface Water - Eel River

PON-SM4500-NH3-B,C, SM4500-NORG-B,C Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR Analyst: RP
 Total Dissolved Nitrogen 0.83 0.39 mg/L 1 7/18/2007

TOTAL PHOSPHOROUS - L10-115-01-1E Analyst: RP
 Total Phosphorous 0.0571 0.0400 mg/L 1 7/11/2007

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit
 E Value above quantitation range II 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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-009

Collection Date: 7/9/2007 12:40:00 PM

Client Sample ID: S-6A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	53.0	5.00		mg/L	1	7/10/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: RP
Ammonia (as N)	0.167	0.130		mg/L	1	7/12/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	15.0	1.50		mg/L	1	7/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.472	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.377	0.0257		mg/L	1	7/11/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.600	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	

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: 27-Aug-09
Original Reported Date: 24-Jul-07

CLIENT: Town of Plymouth **Lab Order:** 0707142
Project: Surface Water - Eel River

PON-SM4500-NH3-B,C, SM4500-NORG-B,C Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR Analyst: RP
Total Dissolved Nitrogen 1.2 0.39 mg/L 1 7/18/2007

TOTAL PHOSPHOROUS - L10-115-01-1E Analyst: RP
Total Phosphorous ND 0.0400 mg/L 1 7/11/2007

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

ANALYTICAL REPORT

Wednesday, June 10, 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
Location: Plymouth, MA

Order No.: 0707142

Dear Kim Michaelis:

GeoLabs, Inc. received 9 sample(s) on 7/10/2007 for the analyses presented in the following report.

Re-issued with lower detection limits for DON and PON. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-001
Client Sample ID: S-3A

Collection Date: 7/9/2007 10:45:00 AM
Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: FC
Total Dissolved Solids	71.0	5.00		mg/L	1	7/10/2007
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007
NOTES:						
Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						Analyst: RP
Ammonia (as N)	0.167	0.130		mg/L	1	7/12/2007
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	23.1	1.50		mg/L	1	7/13/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.704	0.130		mg/L	1	7/23/2007
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.105	0.0257		mg/L	1	7/11/2007
ORTHOPHOSPHATE, WATER - SM4500-P-E						Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.450	0.130		mg/L	1	7/18/2007
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007

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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen	0.73	0.39	mg/L	1	7/18/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.132	mg/L	1	7/11/2007
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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: 10-Jun-09
Original Reported Date: 24-Jul-07

CLIENT: Town of Plymouth **Lab Order:** 0707142
Project: Surface Water - Eel River

Lab ID: 0707142-002 **Collection Date:** 7/9/2007 11:10:00 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	65.0	5.00		mg/L	1	7/10/2007
						Analyst: FC
TOTAL METALS BY ICP - E200.7 Boron	ND	0.0300		mg/L	1	7/11/2007
						Analyst: QS
PARTICULATE ORGANIC CARBON - E415.1 Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007
						Analyst: SUB
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C Ammonia (as N)	ND	0.130		mg/L	1	7/12/2007
						Analyst: RP
CHLORIDE - L-10-177-07-1-B Chloride	19.9	1.50		mg/L	1	7/13/2007
						Analyst: RP
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3 Dissolved Inorganic Nitrogen	0.176	0.130		mg/L	1	7/23/2007
						Analyst: RP
NITRITE - L10-107-05-1-A Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007
						Analyst: RP
NITRATE - L10-107-04-1-C Nitrate (as N)	ND	0.0257		mg/L	1	7/11/2007
						Analyst: RP
ORTHOPHOSPHATE, WATER - SM4500-P-E Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007
						Analyst: WFR
DON - SM4500-NORG-B,C, SM4500-NH3-B,C Dissolved Organic Nitrogen	0.427	0.130		mg/L	1	7/18/2007
						Analyst: RP
PON-SM4500-NH3-B,C, SM4500-NORG-B,C Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007
						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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen	0.57	0.39	mg/L	1	7/18/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.132	mg/L	1	7/11/2007
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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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-003

Collection Date: 7/9/2007 11:35:00 AM

Client Sample ID: S-1

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	95.0	5.00		mg/L	1	7/10/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
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	7/12/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	37.2	1.50		mg/L	1	7/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.499	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.356	0.0257		mg/L	1	7/11/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.516	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	

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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen	0.99	0.39	mg/L	1	7/18/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.132	mg/L	1	7/11/2007
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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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-004

Collection Date: 7/9/2007 11:50:00 AM

Client Sample ID: S-9A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: FC
Total Dissolved Solids	99.0	5.00		mg/L	1	7/10/2007
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007
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	7/12/2007
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	36.5	1.50		mg/L	1	7/13/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.534	0.130		mg/L	1	7/23/2007
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.419	0.0257		mg/L	1	7/11/2007
ORTHOPHOSPHATE, WATER - SM4500-P-E						Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.457	0.130		mg/L	1	7/18/2007
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007

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
II 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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen	1.0	0.39	mg/L	1	7/18/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.132	mg/L	1	7/11/2007
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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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-005

Collection Date: 7/9/2007 10:15:00 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	73.0	5.00		mg/L	1	7/10/2007
						Analyst: FC
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	7/11/2007
						Analyst: QS
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007
NOTES:						Analyst: SUB
Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	ND	0.130		mg/L	1	7/12/2007
						Analyst: RP
CHLORIDE - L-10-177-07-1-B						
Chloride	20.9	1.50		mg/L	1	7/13/2007
						Analyst: RP
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.373	0.130		mg/L	1	7/23/2007
						Analyst: RP
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007
						Analyst: RP
NITRATE - L10-107-04-1-C						
Nitrate (as N)	0.133	0.0257		mg/L	1	7/11/2007
						Analyst: RP
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	0.0382	0.0257		mg/L	1	7/11/2007
						Analyst: WFR
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						
Dissolved Organic Nitrogen	0.438	0.130		mg/L	1	7/18/2007
						Analyst: RP
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007

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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C Analyst: RP

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR Analyst: RP
Total Dissolved Nitrogen 0.69 0.39 mg/L 1 7/18/2007

TOTAL PHOSPHOROUS - L10-115-01-1E Analyst: RP
Total Phosphorous ND 0.132 mg/L 1 7/11/2007

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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-006

Collection Date: 7/9/2007 10:25:00 AM

Client Sample ID: S-4A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	67.0	5.00		mg/L	1	7/10/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: RP
Ammonia (as N)	0.161	0.130		mg/L	1	7/12/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	20.6	1.50		mg/L	1	7/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.166	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0515	0.0257		mg/L	1	7/11/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	0.0301	0.0257		mg/L	1	7/11/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.400	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	

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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen 0.62 0.39 mg/L 1 7/18/2007

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.132 mg/L 1 7/11/2007

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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-007

Collection Date: 7/9/2007 9:45:00 AM

Client Sample ID: S-8B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: FC
Total Dissolved Solids	49.0	5.00		mg/L	1	7/10/2007
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007
NOTES:	Sample was analyzed at MA-00071.					
AMMONIA (AS N) - SM18 4500-NH3-B,C						Analyst: RP
Ammonia (as N)	0.137	0.130		mg/L	1	7/12/2007
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	7.96	1.50		mg/L	1	7/13/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.784	0.130		mg/L	1	7/23/2007
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.309	0.0257		mg/L	1	7/11/2007
ORTHOPHOSPHATE, WATER - SM4500-P-E						Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.392	0.130		mg/L	1	7/18/2007
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007

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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen	0.84	0.39	mg/L	1	7/18/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.132	mg/L	1	7/11/2007
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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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-008

Collection Date: 7/9/2007 10:00:00 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	96.0	5.00		mg/L	1	7/10/2007
						Analyst: FC
TOTAL METALS BY ICP - E200.7						
Boron	ND	0.0300		mg/L	1	7/11/2007
						Analyst: QS
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007
NOTES:						Analyst: SUB
Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	0.149	0.130		mg/L	1	7/12/2007
						Analyst: RP
CHLORIDE - L-10-177-07-1-B						
Chloride	33.9	1.50		mg/L	1	7/13/2007
						Analyst: RP
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.174	0.130		mg/L	1	7/23/2007
						Analyst: RP
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007
						Analyst: RP
NITRATE - L10-107-04-1-C						
Nitrate (as N)	0.110	0.0257		mg/L	1	7/11/2007
						Analyst: RP
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	0.0317	0.0257		mg/L	1	7/11/2007
						Analyst: WFR
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						
Dissolved Organic Nitrogen	0.568	0.130		mg/L	1	7/18/2007
						Analyst: RP
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007

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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen	0.83	0.39	mg/L	1	7/18/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.132	mg/L	1	7/11/2007
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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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

Lab ID: 0707142-009

Collection Date: 7/9/2007 12:40:00 PM

Client Sample ID: S-6A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: FC
Total Dissolved Solids	53.0	5.00		mg/L	1	7/10/2007
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	7/11/2007
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007
NOTES:						
Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						Analyst: RP
Ammonia (as N)	0.167	0.130		mg/L	1	7/12/2007
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	15.0	1.50		mg/L	1	7/13/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: RP
Dissolved Inorganic Nitrogen	0.472	0.130		mg/L	1	7/23/2007
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/11/2007
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.377	0.0257		mg/L	1	7/11/2007
ORTHOPHOSPHATE, WATER - SM4500-P-E						Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/11/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: RP
Dissolved Organic Nitrogen	0.600	0.130		mg/L	1	7/18/2007
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007

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: 10-Jun-09
Original Reported Date: 24-Jul-07

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

Lab Order: 0707142

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: RP

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

Analyst: RP

Total Dissolved Nitrogen	1.2	0.39	mg/L	1	7/18/2007
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TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous	ND	0.132	mg/L	1	7/11/2007
-------------------	----	-------	------	---	-----------

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	II	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)

0707142

7142-001

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/9/7	1045	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
7/9/7	1110	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE

7142-002

Relinquished By: Date/Time

Michaelis 7/9/7

Received By: Date/Time

[Signature] 7-9-07 2:45p

[Signature] 7.9.07 4:45

R.B. 7-9-07 2:45pm

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

Chain of Custody

0707147

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
7/9/07	1135	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	HNO3
			1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
7/9/07	1150	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	HNO3
			1	1 Liter Plastic	TDN, DIN, DON, 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 Michaelis 7/9/07

Kim Michaelis 7-9-07 4:45

Received By: Date/Time:

Kim Michaelis 7-9-07 2:40

R.B. 7-9-07 2:45pm

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

Chain of Custody

0707149

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)

7142-005

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/9/7	1015	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	HNO3
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE
7/9/7	1025	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	HNO3
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE

7142-006

Relinquished By: Date/Time

Michaelis 7/9/7

Received By: Date/Time:

Ken McKenna 7-9-07 2:40

Ken McKenna 7-9-07 4:45

R. B. 7-9-07 2:45pm

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

Chain of Custody

0707142

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)**

7142-007

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/9/7	0945	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	HNO3
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE
7/9/7	1000	S-5B	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, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE

7142-008

Relinquished By: Date/Time

Kim Michaelis 7/9/7

Kim Michaelis 7-9-07
5:45

Received By: Date/Time:

Ken McKenna 7-9-07
2:40

R. B. 7-9-07 2:45 pm

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

Chain of Custody

0707142

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)

7/42-009

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/9/17	1240	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	HNO3
			1	1 Liter Plastic	TDN, DIN, DON, 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 Michaelis 7/9/17

Kim Michaelis 7-9-07
4:45

Received By: Date/Time:

Kim Michaelis 7-9-07
2:46

R. B. 7-9-07 2:45pm

ANALYTICAL REPORT

Thursday, August 27, 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: Harbor Sampling
Location:

Order No.: 0707191

Dear Kim Michaelis:

GeoLabs, Inc. received 2 sample(s) on 7/12/2007 for the analyses presented in the following report.

Report re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 24-Jul-07

CLIENT: Town of Plymouth
Project: Harbor Sampling
Lab Order: 0707191

Lab ID: 0707191-001
Client Sample ID: S-10
Collection Date: 7/12/2007 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
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	7/12/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.245	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/13/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	ND	0.0257		mg/L	1	7/13/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/13/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.182	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	
TOTAL KJELDAHL NITROGEN - SM18 B,C							Analyst: RP
Nitrogen, Total Kjeldahl	ND	0.394		mg/L	1	7/16/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	ND	0.39		mg/L	1	7/18/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	0.0510	0.0400		mg/L	1	7/23/2007	

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: 27-Aug-09
Original Reported Date: 24-Jul-07

CLIENT: Town of Plymouth
Project: Harbor Sampling

Lab Order: 0707191

TOTAL PHOSPHOROUS - L10-115-01-1E

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 24-Jul-07

CLIENT: Town of Plymouth
Project: Harbor Sampling
Lab Order: 0707191

Lab ID: 0707191-002
Client Sample ID: S-7
Collection Date: 7/12/2007 11:05:00 AM
Matrix: GROUNDWATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	7/18/2007	
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	7/12/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: RP
Dissolved Inorganic Nitrogen	0.321	0.130		mg/L	1	7/23/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	7/13/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	ND	0.0257		mg/L	1	7/13/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	7/13/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: RP
Dissolved Organic Nitrogen	0.238	0.130		mg/L	1	7/18/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: RP
Particulate Organic Nitrogen	ND	0.130		mg/L	1	7/18/2007	
TOTAL KJELDAHL NITROGEN - SM18 B,C							Analyst: RP
Nitrogen, Total Kjeldahl	ND	0.394		mg/L	1	7/16/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	ND	0.39		mg/L	1	7/18/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	0.0624	0.0400		mg/L	1	7/23/2007	

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: 27-Aug-09
Original Reported Date: 24-Jul-07

CLIENT: Town of Plymouth
Project: Harbor Sampling

Lab Order: 0707191

TOTAL PHOSPHOROUS - L10-115-01-1E

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

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

Chain of Custody

0707191

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)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7/12/07	1050	S-10	1	Glass Vial	POC	HCL
↓	↓	↓	1	Glass Vial	POC	NONE
↓	↓	↓	1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate	NONE
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON, TKN	H2SO4
7/12/7	1105	S-7	1	Glass Vial	POC	HCL
↓	↓	↓	1	Glass Vial	POC	NONE
↓	↓	↓	1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate	NONE
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON, TKN	H2SO4

Relinquished By: Date/Time

KMichei 7/12/07

M. 7/12/07 12:30

Received By: Date/Time:

M. 7/12/07 11:40

R.B 7-12-07 10:30

ANALYTICAL REPORT

Thursday, August 27, 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
Location:

Order No.: 0708064

Dear Kim Michaelis:

GeoLabs, Inc. received 22 sample(s) on 8/7/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-001

Collection Date: 8/6/2007

Client Sample ID: S-8B

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	31.0	5.00		mg/L	1	8/8/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	8/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	<2	0.500		mg/m ³	1	8/14/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	0.154	0.130		mg/L	1	8/28/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	8.40	1.50		mg/L	1	8/13/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	15.2	0.130	H	mg/L	1	8/31/2020
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	15.1	0.257	H	mg/L	10	8/9/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.730	0.130	mg/L	1	8/30/2007		
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007		
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	16	0.39	mg/L	1	8/23/2007		
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007		

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	II	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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-002

Collection Date: 8/6/2007

Client Sample ID: S-5B

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	62.0	5.00		mg/L	1	8/8/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	0.0332	0.0300		mg/L	1	8/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	3.50	0.500		mg/m ³	1	8/14/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130		mg/L	1	8/28/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	34.5	1.50		mg/L	1	8/13/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.254	0.130	H	mg/L	1	8/31/2020
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	ND	0.0257	H	mg/L	1	8/9/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	0.0285	0.0257	H	mg/L	1	8/9/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.645	0.130	mg/L	1	8/30/2007		
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007		
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	0.74	0.39	mg/L	1	8/23/2007		
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	0.0574	0.0400	mg/L	1	8/21/2007		

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

Lab ID: 0708064-003 **Collection Date:** 8/6/2007
Client Sample ID: S-4B **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	54.0	5.00		mg/L	1	8/8/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	8/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	<2	0.500		mg/m ³	1	8/14/2007	
NOTES:	Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.149	0.130		mg/L	1	8/28/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	21.2	1.50		mg/L	1	8/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.881	0.130	H	mg/L	1	8/31/2020	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0618	0.0257	H	mg/L	1	8/9/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	0.0300	0.0257	H	mg/L	1	8/9/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	1.15	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	1.4	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-004

Collection Date: 8/6/2007

Client Sample ID: S-11

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	43.0	5.00		mg/L	1	8/8/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	8/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	4.80	0.500		mg/m ³	1	8/14/2007	
NOTES:	Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	ND	0.130		mg/L	1	8/28/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	22.7	1.50		mg/L	1	8/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.258	0.130	H	mg/L	1	8/31/2020	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0691	0.0257	H	mg/L	1	8/9/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	0.0332	0.0257	H	mg/L	1	8/9/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.685	0.130	mg/L	1	8/30/2007		
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007		
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	0.89	0.39	mg/L	1	8/23/2007		
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007		

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-005

Collection Date: 8/6/2007

Client Sample ID: S-15

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	39.0	5.00		mg/L	1	8/8/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	8/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	<2	0.500		mg/m ³	1	8/14/2007	
NOTES: Sample was analyzed at M-MA003.							
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007	
NOTES: Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.137	0.130		mg/L	1	8/28/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	23.0	1.50		mg/L	1	8/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.313	0.130	H	mg/L	1	8/31/2020	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.115	0.0257	H	mg/L	1	8/9/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	1.05	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	0.190	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	1.3	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

Lab ID: 0708064-006 **Collection Date:** 8/6/2007
Client Sample ID: S-16 **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	36.0	5.00		mg/L	1	8/8/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	8/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	4.90	0.500		mg/m ³	1	8/14/2007	
NOTES:	Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	2.4	1.0		mg/L	1	8/22/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.143	0.130		mg/L	1	8/28/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	14.8	1.50		mg/L	1	8/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	ND	0.130	H	mg/L	1	8/31/2020	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0342	0.0257	H	mg/L	1	8/9/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.628	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.81	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

Qualifiers:	B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit
	E	Value above quantitation range	II	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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-007

Collection Date: 8/6/2007

Client Sample ID: S-18

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	66.0	5.00		mg/L	1	8/8/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	8/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	<2	0.500		mg/m ³	1	8/14/2007	
NOTES: Sample was analyzed at M-MA003.							
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007	
NOTES: Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.132	0.130		mg/L	1	8/28/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	31.9	1.50		mg/L	1	8/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.294	0.130	H	mg/L	1	8/31/2020	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0369	0.0257	H	mg/L	1	8/9/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	0.0609	0.0257	H	mg/L	1	8/9/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.908	0.130	mg/L	1	8/30/2007		
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007		
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	1.1	0.39	mg/L	1	8/23/2007		
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	0.0830	0.0400	mg/L	1	8/21/2007		

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-008

Collection Date: 8/6/2007

Client Sample ID: S-3B

Matrix: SURFACE WATER

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

Total Dissolved Solids	51.0	5.00		mg/L	1	8/8/2007	Analyst: FC
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TOTAL METALS BY ICP - E200.7

Boron	ND	0.0300		mg/L	1	8/9/2007	Analyst: QS
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CHLOROPHYLL - A

Chlorophyll a	<2	0.500		mg/m ³	1	8/14/2007	Analyst: SUB
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007	Analyst: SUB
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NOTES:

Sample was analyzed at MA-00071.

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

Ammonia (as N)	0.171	0.130		mg/L	1	8/28/2007	Analyst: WFR
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CHLORIDE - L-10-177-07-1-B

Chloride	23.5	1.50		mg/L	1	8/13/2007	Analyst: RP
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Dissolved Inorganic Nitrogen	0.488	0.130	H	mg/L	1	8/31/2020	Analyst: WFR
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NITRITE - L10-107-05-1-A

Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	Analyst: RP
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NITRATE - L10-107-04-1-C

Nitrate (as N)	0.165	0.0257	H	mg/L	1	8/9/2007	Analyst: RP
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Phosphorus, Orthophosphate (As P)	0.0455	0.0257	H	mg/L	1	8/9/2007	Analyst: RP
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.640	0.130	mg/L	1	8/30/2007		
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007		
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	0.99	0.39	mg/L	1	8/23/2007		
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007		

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-009

Collection Date: 8/6/2007

Client Sample ID: S-3A

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	52.0	5.00		mg/L	1	8/8/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	8/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	5.60	0.500		mg/m ³	1	8/14/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130		mg/L	1	8/28/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	23.0	1.50		mg/L	1	8/13/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.453	0.130	H	mg/L	1	8/31/2020
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.131	0.0257	H	mg/L	1	8/9/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.673	0.130	mg/L	1	8/30/2007		
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007		
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	0.90	0.39	mg/L	1	8/23/2007		
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007		

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-010

Collection Date: 8/6/2007

Client Sample ID: S-2C

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	49.0	5.00		mg/L	1	8/8/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	8/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	24.8	0.500		mg/m ³	1	8/14/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	0.137	0.130		mg/L	1	8/28/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	22.2	1.50		mg/L	1	8/13/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.189	0.130	H	mg/L	1	8/31/2020
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.0473	0.0257	H	mg/L	1	8/9/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.657	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.85	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-011

Collection Date: 8/6/2007

Client Sample ID: S-2B

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	44.0	5.00		mg/L	1	8/8/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	8/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	7.50	0.500		mg/m ³	1	8/14/2007	
NOTES:	Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.132	0.130		mg/L	1	8/28/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	21.1	1.50		mg/L	1	8/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.178	0.130	H	mg/L	1	8/31/2020	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	ND	0.0257	H	mg/L	1	8/9/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.645	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.81	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

Lab ID: 0708064-012 **Collection Date:** 8/6/2007
Client Sample ID: S-1 **Matrix:** SURFACE WATER

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 8/9/2007

TOTAL METALS BY ICP - E200.7 Analyst: QS
 Boron ND 0.0300 mg/L 1 8/9/2007

CHLOROPHYLL - A Analyst: SUB
 Chlorophyll a <2 0.500 mg/m³ 1 8/14/2007
NOTES:
 Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1 Analyst: SUB
 Particulate Organic Carbon *1.9* 1.0 mg/L 1 8/22/2007
NOTES:
 Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C Analyst: WFR
 Ammonia (as N) ND 0.130 mg/L 1 8/28/2007

CHLORIDE - L-10-177-07-1-B Analyst: RP
 Chloride *38.4* 1.50 mg/L 1 8/13/2007

DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3 Analyst: WFR
 Dissolved Inorganic Nitrogen *0.684* 0.130 H mg/L 1 8/31/2020

NITRITE - L10-107-05-1-A Analyst: RP
 Nitrite (as N) ND 0.0220 H mg/L 1 8/9/2007

NITRATE - L10-107-04-1-C Analyst: RP
 Nitrate (as N) *0.355* 0.0257 H mg/L 1 8/9/2007

ORTHOPHOSPHATE, WATER - SM4500-P-E Analyst: RP
 Phosphorus, Orthophosphate (As P) ND 0.0257 H mg/L 1 8/9/2007

DON - SM4500-NORG-B,C, SM4500-NH3-B,C Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.668	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	1.1	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-013

Collection Date: 8/6/2007

Client Sample ID: S-9A

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	92.0	5.00		mg/L	1	8/9/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	8/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	2.80	0.500		mg/m ³	1	8/14/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	1.9	1.0		mg/L	1	8/22/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130		mg/L	1	8/28/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	43.5	1.50		mg/L	1	8/13/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.732	0.130	H	mg/L	1	8/31/2020
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.453	0.0257	H	mg/L	1	8/9/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.516	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	1.1	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-014

Collection Date: 8/6/2007

Client Sample ID: S-21

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	105	5.00		mg/L	1	8/9/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	8/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	2.70	0.500		mg/m ³	1	8/14/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	0.182	0.130		mg/L	1	8/28/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	48.0	1.50		mg/L	1	8/13/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	1.30	0.130	H	mg/L	1	8/31/2020
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.912	0.0257	H	mg/L	1	8/9/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth
Project: Surface Water - Eel River
Lab Order: 0708064

DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.601	0.130	mg/L	1	8/30/2007		
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007		
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	1.7	0.39	mg/L	1	8/23/2007		
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007		

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-015

Collection Date: 8/6/2007

Client Sample ID: S-6A

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	49.0	5.00		mg/L	1	8/9/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	8/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	9.20	0.500		mg/m ³	1	8/14/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	2.0	1.0		mg/L	1	8/22/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130		mg/L	1	8/28/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	17.9	1.50		mg/L	1	8/13/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.505	0.130	H	mg/L	1	8/31/2020
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.309	0.0257	H	mg/L	1	8/9/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.521	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.91	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

Lab ID: 0708064-016 **Collection Date:** 8/6/2007
Client Sample ID: S-6B **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							
Total Dissolved Solids	56.0	5.00		mg/L	1	8/9/2007	FC
TOTAL METALS BY ICP - E200.7							
Boron	ND	0.0300		mg/L	1	8/9/2007	QS
CHLOROPHYLL - A							
Chlorophyll a	<2	0.500		mg/m ³	1	8/14/2007	SUB
NOTES: Sample was analyzed at M-MA003.							
PARTICULATE ORGANIC CARBON - E415.1							
Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007	SUB
NOTES: Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							
Ammonia (as N)	ND	0.130		mg/L	1	8/28/2007	WFR
CHLORIDE - L-10-177-07-1-B							
Chloride	17.2	1.50		mg/L	1	8/13/2007	RP
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							
Dissolved Inorganic Nitrogen	0.543	0.130	H	mg/L	1	8/31/2020	WFR
NITRITE - L10-107-05-1-A							
Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	RP
NITRATE - L10-107-04-1-C							
Nitrate (as N)	0.320	0.0257	H	mg/L	1	8/9/2007	RP
ORTHOPHOSPHATE, WATER - SM4500-P-E							
Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007	RP
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							
							Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.492	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	0.331	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.92	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-017

Collection Date: 8/6/2007

Client Sample ID: S-12

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	43.0	5.00		mg/L	1	8/9/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	8/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	3.80	0.500		mg/m ³	1	8/14/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	1.4	1.0		mg/L	1	8/22/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130		mg/L	1	8/28/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	16.1	1.50		mg/L	1	8/13/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.409	0.130	H	mg/L	1	8/31/2020
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.315	0.0257	H	mg/L	1	8/9/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	0.0332	0.0257	H	mg/L	1	8/9/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.606	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	1.0	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-018

Collection Date: 8/6/2007

Client Sample ID: S-13

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	45.0	5.00		mg/L	1	8/9/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	8/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	2.40	0.500		mg/m ³	1	8/14/2007	
NOTES:	Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	0		mg/L	1	8/22/2007	
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.132	0.130		mg/L	1	8/28/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	16.3	1.50		mg/L	1	8/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.528	0.130	H	mg/L	1	8/31/2020	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.451	0.0257	H	mg/L	1	8/9/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.572	0.130		mg/L	1	8/30/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

DON - SM4500-NORG-B,C, SM4500-NH3-B,C Analyst: **WFR**

PON-SM4500-NH3-B,C, SM4500-NORG-B,C Analyst: **WFR**
 Particulate Organic Nitrogen ND 0.130 mg/L 1 8/30/2007

TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR Analyst: **RP**
 Total Dissolved Nitrogen 1.2 0.39 mg/L 1 8/23/2007

TOTAL PHOSPHOROUS - L10-115-01-1E Analyst: **RP**
 Total Phosphorous ND 0.0400 mg/L 1 8/21/2007

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-019

Collection Date: 8/6/2007

Client Sample ID: S-8A

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	43.0	5.00		mg/L	1	8/9/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	8/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	<2	0.500		mg/m ³	1	8/14/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	0.154	0.130		mg/L	1	8/28/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	12.9	1.50		mg/L	1	8/13/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.259	0.130	H	mg/L	1	8/31/2020
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.178	0.0257	H	mg/L	1	8/9/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.663	0.130	mg/L	1	8/30/2007		
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007		
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	1.0	0.39	mg/L	1	8/23/2007		
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007		

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-020

Collection Date: 8/6/2007

Client Sample ID: S-14

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	39.0	5.00		mg/L	1	8/9/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	8/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	11.0	0.500		mg/m ³	1	8/14/2007	
NOTES:	Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	ND	0.130		mg/L	1	8/28/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	13.3	1.50		mg/L	1	8/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.354	0.130	H	mg/L	1	8/31/2020	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.180	0.0257	H	mg/L	1	8/9/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	0.0270	0.0257	H	mg/L	1	8/9/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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: 27-Aug-09
 Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.679	0.130	mg/L	1	8/30/2007		
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007		
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: RP
Total Dissolved Nitrogen	0.95	0.39	mg/L	1	8/23/2007		
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007		

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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

Lab ID: 0708064-021

Collection Date: 8/6/2007

Client Sample ID: S-17

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	59.0	5.00		mg/L	1	8/9/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	8/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	<2	0.500		mg/m ³	1	8/14/2007	
NOTES:	Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	8/22/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	ND	0.130		mg/L	1	8/28/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	24.5	1.50		mg/L	1	8/13/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	ND	0.130	H	mg/L	1	8/31/2020	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220	H	mg/L	1	8/9/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0627	0.0257	H	mg/L	1	8/9/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257	H	mg/L	1	8/9/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.634	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.81	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0411	0.0400	mg/L	1	8/21/2007	

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: 27-Aug-09
Original Reported Date: 05-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0708064
Project: Surface Water - Eel River

Lab ID: 0708064-022 **Collection Date:** 8/6/2007
Client Sample ID: S-4A **Matrix:** SURFACE WATER

Analyses **Result** **Det. Limit** **Qual** **Units** **DF** **Date Analyzed**

TOTAL DISSOLVED SOLIDS - SM2540C **Analyst: FC**
 Total Dissolved Solids 55.0 5.00 mg/L 1 8/9/2007

TOTAL METALS BY ICP - E200.7 **Analyst: QS**
 Boron ND 0.0300 mg/L 1 8/9/2007

CHLOROPHYLL - A **Analyst: SUB**
 Chlorophyll a 4.90 0.500 mg/m³ 1 8/14/2007
NOTES:
 Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1 **Analyst: SUB**
 Particulate Organic Carbon ND 1.0 mg/L 1 8/22/2007
NOTES:
 Sample was analyzed at MA-00071.

AMMONIA (AS N) - SM18 4500-NH3-B,C **Analyst: WFR**
 Ammonia (as N) ND 0.130 mg/L 1 8/28/2007

CHLORIDE - L-10-177-07-1-B **Analyst: RP**
 Chloride 22.1 1.50 mg/L 1 8/13/2007

DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3 **Analyst: WFR**
 Dissolved Inorganic Nitrogen 0.158 0.130 H mg/L 1 8/31/2020

NITRITE - L10-107-05-1-A **Analyst: RP**
 Nitrite (as N) ND 0.0220 H mg/L 1 8/9/2007

NITRATE - L10-107-04-1-C **Analyst: RP**
 Nitrate (as N) 0.0852 0.0257 H mg/L 1 8/9/2007

ORTHOPHOSPHATE, WATER - SM4500-P-E **Analyst: RP**
 Phosphorus, Orthophosphate (As P) ND 0.0257 H mg/L 1 8/9/2007

DON - SM4500-NORG-B,C, SM4500-NH3-B,C **Analyst: WFR**

Qualifiers: B Analyte detected in the associated Method Blank BRL Below Reporting Limit
 E Value above quantitation range II 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: 27-Aug-09
Original Reported Date: 05-Sep-07

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

Lab Order: 0708064

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.499	0.130	mg/L	1	8/30/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	8/30/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: RP
Total Dissolved Nitrogen	0.71	0.39	mg/L	1	8/23/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	8/21/2007	

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

0708064

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), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/07	0800	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	HNO3
			1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
8/6/07	0810	S-5B	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE

8064-001

002

Relinquished By: Date/Time

Kim Michaelis 8/6/07

Erik Dias 8/7/07

Received By: Date/Time:

Erik Dias 8/6/07 4:30

R.B. 8-7-07 11:00am

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

Chain of Custody

0708064

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), David Gould (DG)

8064-003

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/7	0850	S-46	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
8/6/7	0900	S-11	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE

004

Relinquished By: Date/Time

Kim Michaelis 8/6/7

Erik Diaz 8/7/07

Received By: Date/Time:

Erik Diaz 8/6/07 4:30

R.B. 8-7-07 11:00 Am

Laboratory:

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

Chain of Custody

0708064

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), David Gould (DG)

005

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/7	0910	S-15	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
8/6/7	0925	S-16	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE

006

Relinquished By: Date/Time

Kim Michaelis 8/6/7

Eric Pine 8/7/07

Received By: Date/Time:

8/6/07 4:30

R.B. 8-7-07 11:00

Laboratory:

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

Chain of Custody

0708064

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), David Gould (DG)

007

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/7	0935	S-18	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
—————→						
8/6/7	0955	S-3B	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE

008

Relinquished By: Date/Time

Kim Michaelis 8/6/7

Erik Davis 8/7/07

Received By: Date/Time:

Erik Davis 8/6/07 4:30

R.B. 8-7-07 1100

Laboratory:

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

Chain of Custody

0708064

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), David Gould (DG)

8064-009

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/07	1005	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	HNO ₃
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE
<hr/>						
8/6/07	1030	S-2C	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, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE

010

Relinquished By: Date/Time

Kim Michaelis 8/6/07

Erik Davis 8/7/07

Received By: Date/Time:

Erik Davis 8/6/07 4:30

R.B. 8-7-07 11:00

Laboratory:

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

Chain of Custody

0708064

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), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/7	1040	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
<hr/>						
8/6/7	1050	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	HNO3
			1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE

8064-011

012

Relinquished By: Date/Time

Kim Michaelis 8/6/7

Erik Davis 8/7/07

Received By: Date/Time:

Erik Davis 8/6/07 4:30

R.B. 8-7-07 11:00

Laboratory:

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

Chain of Custody

0718064

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), David Gould (DG)

8064-013

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/7	1100	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
8/6/7	1115	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE

014

Relinquished By: Date/Time

Kim Michaelis 8/6/7

Erik Davis 8/7/07

Received By: Date/Time:

Erik Davis 8/6/07 4:30

R.B. 8-7-07 11:00

Laboratory:

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

Chain of Custody

0708004

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), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/7	1230	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
<hr/>						
8/6/7	1240	S-6B	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, 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 8/6/7

Erik Davis 8/7/07

Received By: Date/Time:

Erik Davis 8/6/07 4:30

R. B. 8-7-07 11:00

Laboratory:

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

Chain of Custody

0708064

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), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/7	1300	S-12	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
8/6/7	1310	S-13	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, 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 Michaelis 8/6/7

Received By: Date/Time:

Erik Davis 8/6/07 4:30

Erik Davis 8/7/07

B.B. 8-7-07 11:00

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

Chain of Custody

070 8064

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), David Gould (DG)

8064-019

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/7	1320	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	HNO3
			1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
8/6/7	1330	S-14	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE

020

(S-14)

Relinquished By: Kim Michaelis Date/Time: 8/6/7

Received By: Erika Davis Date/Time: 8/6/07 4:30

Erika Davis 8/7/07

R.B. 8-7-07 11:00

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

Chain of Custody

0708064

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), David Gould (DG)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/6/7	0825	S-17	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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
<hr/>						
8/6/7	0840	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, 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 8/6/7

Erick Diaz 8/7/07

Received By: Date/Time:

Erick Diaz 8/6/07 4:30

R.B. 8-7-07 11:00

ANALYTICAL REPORT

Thursday, August 27, 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: Harbor Sampling
Location: Plymouth, MA

Order No.: 0709109

Dear Kim Michaelis:

GeoLabs, Inc. received 2 sample(s) on 9/12/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
 Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Harbor Sampling

Lab Order: 0709109

Lab ID: 0709109-001

Collection Date: 9/12/2007 12:30:00 PM

Client Sample ID: S-7

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	9/17/2007
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						
Ammonia (as N)	ND	0.130		mg/L	1	9/21/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	0.157	0.130		mg/L	1	9/21/2007
NITRITE - L10-107-05-1-A						
Nitrite (as N)	ND	0.0220		mg/L	1	9/14/2007
NITRATE - L10-107-04-1-C						
Nitrate (as N)	ND	0.0257		mg/L	1	9/14/2007
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/14/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						
Dissolved Organic Nitrogen	ND	0.130		mg/L	1	9/21/2007
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/21/2007
TOTAL KJELDAHL NITROGEN - SM18 B,C						
Nitrogen, Total Kjeldahl	ND	0.394		mg/L	1	9/21/2007
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						
Total Dissolved Nitrogen	ND	0.39		mg/L	1	9/21/2007
TOTAL PHOSPHOROUS - L10-115-01-1E						
Total Phosphorous	0.0591	0.0400		mg/L	1	9/18/2007

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Harbor Sampling

Lab Order: 0709109

TOTAL PHOSPHOROUS - L10-115-01-1E

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709109
Project: Harbor Sampling

Lab ID: 0709109-002 **Collection Date:** 9/12/2007 12:45:00 PM
Client Sample ID: S-10 **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
PARTICULATE ORGANIC CARBON - E415.1						
Particulate Organic Carbon	ND	1.0		mg/L	1	9/17/2007
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	9/21/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						
Dissolved Inorganic Nitrogen	ND	0.130		mg/L	1	9/21/2007
NITRITE - L10-107-05-1-A						
Nitrite (as N)	0.0263	0.0220		mg/L	1	9/14/2007
NITRATE - L10-107-04-1-C						
Nitrate (as N)	ND	0.0257		mg/L	1	9/14/2007
ORTHOPHOSPHATE, WATER - SM4500-P-E						
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/14/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						
Dissolved Organic Nitrogen	ND	0.130		mg/L	1	9/21/2007
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/21/2007
TOTAL KJELDAHL NITROGEN - SM18 B,C						
Nitrogen, Total Kjeldahl	ND	0.394		mg/L	1	9/21/2007
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						
Total Dissolved Nitrogen	ND	0.39		mg/L	1	9/21/2007
TOTAL PHOSPHOROUS - L10-115-01-1E						
Total Phosphorous	0.0561	0.0400		mg/L	1	9/18/2007

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Harbor Sampling

Lab Order: 0709109

TOTAL PHOSPHOROUS - L10-115-01-1E

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

Laboratory:

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

Chain of Custody

0709109

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)

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
9/12/07	1230	S-7	1	Glass Vial	POC	HCL
↓	↓	↓	1	Glass Vial	POC	NONE
↓	↓	↓	1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate	NONE
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON, TKN	H2SO4
9/12/07	1245	S-10	1	Glass Vial	POC	HCL
↓	↓	↓	1	Glass Vial	POC	NONE
↓	↓	↓	1	500 mL Plastic	NO ₂ , NO ₃ , O-Phosphate	NONE
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON, TKN	H2SO4

9109-001

9109-002

Relinquished By: Date/Time

Kim Michaelis 9/12/07

Kim Michaelis 9/12/07 3:35

Received By: Date/Time:

Sam McKenna 9/12/07 3:45

Danielle Rega 9/12/07 3:35

ANALYTICAL REPORT

Thursday, August 27, 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
Location: Eel River, Plymouth, MA

Order No.: 0709110

Dear Kim Michaelis:

GeoLabs, Inc. received 9 sample(s) on 9/12/2007 for the analyses presented in the following report.

Re-issued with lower detection limit for Total Phosphorous. There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709110
Project: Surface Water

Lab ID: 0709110-001 **Collection Date:** 9/12/2007 8:10:00 AM
Client Sample ID: S-8A **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	70.0	5.00		mg/L	1	9/14/2007	
TOTAL METALS BY ICP - SW6010B							Analyst: QS
Boron	ND	0.0300		mg/L	1	9/13/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	3.80	0.500		mg/m ³	1	9/14/2007	
NOTES: Sample was analyzed at M-MA003.							
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/17/2007	
NOTES: Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.178	0.130		mg/L	1	9/21/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	61.6	1.50		mg/L	1	9/14/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.151	0.130		mg/L	1	9/21/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/14/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0759	0.0257		mg/L	1	9/14/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/14/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709110
Project: Surface Water

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	ND	0.130	mg/L	1	9/21/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	9/21/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	ND	0.39	mg/L	1	9/21/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0462	0.0400	mg/L	1	9/18/2007	

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Surface Water
Lab Order: 0709110

Lab ID: 0709110-002
Client Sample ID: S-5B
Collection Date: 9/12/2007 8:20:00 AM
Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: FC
Total Dissolved Solids	66.0	5.00		mg/L	1	9/14/2007
TOTAL METALS BY ICP - SW6010B						Analyst: QS
Boron	ND	0.0300		mg/L	1	9/13/2007
CHLOROPHYLL - A						Analyst: SUB
Chlorophyll a	2.80	0.500		mg/m ³	1	9/14/2007
NOTES:						
Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/17/2007
NOTES:						
Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						Analyst: WFR
Ammonia (as N)	ND	0.130		mg/L	1	9/21/2007
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	44.9	1.50		mg/L	1	9/14/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: WFR
Dissolved Inorganic Nitrogen	0.337	0.130		mg/L	1	9/21/2007
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/14/2007
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.0651	0.0257		mg/L	1	9/14/2007
ORTHOPHOSPHATE, WATER - SM4500-P-E						Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/14/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709110
Project: Surface Water

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.192	0.130	mg/L	1	9/21/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	0.182	0.130	mg/L	1	9/21/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	ND	0.39	mg/L	1	9/21/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0465	0.0400	mg/L	1	9/18/2007	

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0709110

Lab ID: 0709110-003

Collection Date: 9/12/2007 8:45:00 AM

Client Sample ID: S-4A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							
Total Dissolved Solids	92.0	5.00		mg/L	1	9/14/2007	FC
TOTAL METALS BY ICP - SW6010B							
Boron	ND	0.0300		mg/L	1	9/13/2007	QS
CHLOROPHYLL - A							
Chlorophyll a	8.20	0.500		mg/m ³	1	9/14/2007	SUB
NOTES: Sample was analyzed at M-MA003.							
PARTICULATE ORGANIC CARBON - E415.1							
Particulate Organic Carbon	ND	1.0		mg/L	1	9/17/2007	SUB
NOTES: Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							
Ammonia (as N)	0.139	0.130		mg/L	1	9/21/2007	WFR
CHLORIDE - L-10-177-07-1-B							
Chloride	24.9	1.50		mg/L	1	9/14/2007	RP
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							
Dissolved Inorganic Nitrogen	0.257	0.130		mg/L	1	9/21/2007	WFR
NITRITE - L10-107-05-1-A							
Nitrite (as N)	ND	0.0220		mg/L	1	9/14/2007	RP
NITRATE - L10-107-04-1-C							
Nitrate (as N)	0.0569	0.0257		mg/L	1	9/14/2007	RP
ORTHOPHOSPHATE, WATER - SM4500-P-E							
Phosphorus, Orthophosphate (As P)	0.0502	0.0257		mg/L	1	9/14/2007	RP
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							
							WFR

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709110
Project: Surface Water

DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.770	0.130	mg/L	1	9/21/2007		
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	9/21/2007		
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR							Analyst: WFR
Total Dissolved Nitrogen	0.97	0.39	mg/L	1	9/21/2007		
TOTAL PHOSPHOROUS - L10-115-01-1E							Analyst: RP
Total Phosphorous	0.0819	0.0400	mg/L	1	9/18/2007		

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Surface Water
Lab Order: 0709110

Lab ID: 0709110-004
Client Sample ID: S-3A
Collection Date: 9/12/2007 9:00:00 AM
Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	58.0	5.00		mg/L	1	9/14/2007	
TOTAL METALS BY ICP - SW6010B							Analyst: QS
Boron	ND	0.0300		mg/L	1	9/13/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	11.2	0.500		mg/m ³	1	9/14/2007	
NOTES:	Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/17/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.184	0.130		mg/L	1	9/21/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	24.3	1.50		mg/L	1	9/14/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.182	0.130		mg/L	1	9/21/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/14/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.112	0.0257		mg/L	1	9/14/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/14/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709110
Project: Surface Water

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.215	0.130	mg/L	1	9/21/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	9/21/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.52	0.39	mg/L	1	9/21/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0492	0.0400	mg/L	1	9/18/2007	

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709110
Project: Surface Water

Lab ID: 0709110-005 **Collection Date:** 9/12/2007 9:25:00 AM
Client Sample ID: S-2B **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	58.0	5.00		mg/L	1	9/14/2007	
TOTAL METALS BY ICP - SW6010B							Analyst: QS
Boron	ND	0.0300		mg/L	1	9/13/2007	
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/17/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.133	0.130		mg/L	1	9/21/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	21.9	1.50		mg/L	1	9/14/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	ND	0.130		mg/L	1	9/21/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/14/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.0421	0.0257		mg/L	1	9/14/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/14/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR
Dissolved Organic Nitrogen	0.464	0.130		mg/L	1	9/21/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C							Analyst: WFR
Particulate Organic Nitrogen	ND	0.130		mg/L	1	9/21/2007	

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0709110

PON-SM4500-NH3-B,C, SM4500-NORG-B,C

Analyst: WFR

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

Analyst: WFR

Total Dissolved Nitrogen 0.64 0.39 mg/L 1 9/21/2007

TOTAL PHOSPHOROUS - L10-115-01-1E

Analyst: RP

Total Phosphorous ND 0.0400 mg/L 1 9/18/2007

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0709110

Lab ID: 0709110-006

Collection Date: 9/12/2007 9:35:00 AM

Client Sample ID: S-1

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	85.0	5.00		mg/L	1	9/14/2007
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TOTAL METALS BY ICP - SW6010B

Analyst: QS

Boron	ND	0.0300		mg/L	1	9/13/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	ABS	0.500		mg/m ³	1	9/14/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	1.4	1.0		mg/L	1	9/17/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	0.218	0.130		mg/L	1	9/21/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	39.1	1.50		mg/L	1	9/14/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.477	0.130		mg/L	1	9/21/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220		mg/L	1	9/14/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.364	0.0257		mg/L	1	9/14/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: RP

Phosphorus, Orthophosphate (As P)	0.0283	0.0257		mg/L	1	9/14/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709110
Project: Surface Water

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.390	0.130	mg/L	1	9/21/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	9/21/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.98	0.39	mg/L	1	9/21/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0556	0.0400	mg/L	1	9/18/2007	

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709110
Project: Surface Water

Lab ID: 0709110-007 **Collection Date:** 9/12/2007 9:45:00 AM
Client Sample ID: S-9A **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	60.0	5.00		mg/L	1	9/14/2007	
TOTAL METALS BY ICP - SW6010B							Analyst: QS
Boron	ND	0.0300		mg/L	1	9/13/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	3.80	0.500		mg/m ³	1	9/14/2007	
NOTES: Sample was analyzed at M-MA003.							
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/17/2007	
NOTES: Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.247	0.130		mg/L	1	9/21/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	ND	1.50		mg/L	1	9/14/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.450	0.130		mg/L	1	9/21/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/14/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.356	0.0257		mg/L	1	9/14/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	0.0346	0.0257		mg/L	1	9/14/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0709110

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.254	0.130	mg/L	1	9/21/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	9/21/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.86	0.39	mg/L	1	9/21/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0407	0.0400	mg/L	1	9/18/2007	

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709110
Project: Surface Water

Lab ID: 0709110-008 **Collection Date:** 9/12/2007 10:25:00 AM
Client Sample ID: S-6A **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	87.0	5.00		mg/L	1	9/14/2007	
TOTAL METALS BY ICP - SW6010B							Analyst: QS
Boron	ND	0.0300		mg/L	1	9/13/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	3.70	0.500		mg/m ³	1	9/14/2007	
NOTES:	Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/17/2007	
NOTES:	Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	0.207	0.130		mg/L	1	9/21/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	19.0	1.50		mg/L	1	9/14/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.420	0.130		mg/L	1	9/21/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/14/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.320	0.0257		mg/L	1	9/14/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/14/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0709110

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	1.01	0.130	mg/L	1	9/21/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	9/21/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	1.5	0.39	mg/L	1	9/21/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0578	0.0400	mg/L	1	9/18/2007	

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: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth **Lab Order:** 0709110
Project: Surface Water

Lab ID: 0709110-009 **Collection Date:** 9/12/2007 10:45:00 AM
Client Sample ID: S-8B **Matrix:** SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	190	5.00		mg/L	1	9/14/2007	
TOTAL METALS BY ICP - SW6010B							Analyst: QS
Boron	ND	0.0300		mg/L	1	9/13/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	ABS	0.500		mg/m ³	1	9/14/2007	
NOTES: Sample was analyzed at M-MA003.							
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	9/17/2007	
NOTES: Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	ND	0.130		mg/L	1	9/21/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	66.7	1.50		mg/L	1	9/14/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.338	0.130		mg/L	1	9/21/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	9/14/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.273	0.0257		mg/L	1	9/14/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: RP
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	9/14/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 21-Sep-07

CLIENT: Town of Plymouth
Project: Surface Water

Lab Order: 0709110

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.186	0.130	mg/L	1	9/21/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	9/21/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.56	0.39	mg/L	1	9/21/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	9/18/2007	

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
9/12/7	0810	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	HNO3
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE
	0820					
9/12/7	0820	S-5B	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, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE

9110-001

9110-002

Relinquished By: Date/Time

Kim Michaelis 9/14/7

Ken M. Kern 9/12/07 3:35

Received By: Date/Time:

Ken M. Kern 9/12/07 2:45

Danielle Rega 9/12/07 3:35p

0709110

Chain of Custody

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

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
9/12/7	0845	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	HNO3
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE
9/12/7	0900	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, TDS	NONE
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE

9110-003

9110-004

Relinquished By: Kim Michaelis Date/Time: 9/12/7
Kim Michaelis 9/12/07 3:35

Received By: Ken Michaelis Date/Time: 9/12/07 2:45
Danielle Rega 9/12/07 3:35p

0709110

Chain of Custody

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

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	
9/12/7	0925	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, TDS	NONE	
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4	
<hr/>				1	250 mL Amber Glass	Chlorophyll-a	NONE
9/12/7	0935	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	HNO3	
↓	↓	↓	1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE	
↓	↓	↓	1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4	
↓	↓	↓	1	250 mL Amber Glass	Chlorophyll-a	NONE	

9110-005

9110-006

Relinquished By: Date/Time
Kim Michaelis 9/12/7

Kim Michaelis 9/12/07 3:35

Received By: Date/Time:
Ken McKenna 9/12/07 2:45

Danielle Rega 9/12/07 3:35

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
9/12/7	0945	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	HNO3
			1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
9/12/7	1025	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	HNO3
			1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE

9110-007

9110-008

Relinquished By: Date/Time

Kim Michaelis 9/12/7
9/12/07
Ken M. Levan 3:35

Received By: Date/Time:

Ken M. Levan 9/12/07
2:45
Danielle Rega 9/12/07 3:35

0709110

Chain of Custody

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

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
9/12/07	1045	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	HNO3
			1	1 Liter Plastic	TDN, DIN, DON, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
			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, TDS	NONE
			1	1 Liter Plastic	NH ₃ , T-Phosphorus, PON	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE

9110-009

Relinquished By: Date/Time
Kim Michaelis 9/12/07
Kim Michaelis 9/12/07 3:35

Received By: Date/Time:
Kim Michaelis 9/12/07 2:45
Danielle Rega 9/12/07 3:35p

ANALYTICAL REPORT

Thursday, August 27, 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
Location:

Order No.: 0710079

Dear Kim Michaelis:

GeoLabs, Inc. received 9 sample(s) on 10/4/2007 for the analyses presented in the following report.

Re-issued with lower detection limits for Total Phosphorous. ^{+DON+PO₄} There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications.

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: 27-Aug-09
Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

Lab ID: 0710079-001
Client Sample ID: S-5B

Collection Date: 10/4/2007 9:05:00 AM
Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C Total Dissolved Solids	221	5.00		mg/L	1	10/9/2007
						Analyst: FC
TOTAL METALS BY ICP - E200.7 Boron	ND	0.0300		mg/L	1	10/9/2007
						Analyst: QS
CHLOROPHYLL - A Chlorophyll a	3.80	0.500		mg/m ³	1	10/5/2007
NOTES: Sample was analyzed at M-MA003.						Analyst: SUB
PARTICULATE ORGANIC CARBON - E415.1 Particulate Organic Carbon	ND	1.0		mg/L	1	10/12/2007
NOTES: Sample was analyzed at MA-00071.						Analyst: SUB
AMMONIA (AS N) - SM18 4500-NH3-B,C Ammonia (as N)	ND	0.130		mg/L	1	10/19/2007
						Analyst: WFR
CHLORIDE - L-10-177-07-1-B Chloride	30.2	1.50		mg/L	1	10/10/2007
						Analyst: RP
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3 Dissolved Inorganic Nitrogen	0.252	0.130		mg/L	1	10/22/2007
						Analyst: WFR
NITRITE - L10-107-05-1-A Nitrite (as N)	ND	0.0220		mg/L	1	10/5/2007
						Analyst: RP
NITRATE - L10-107-04-1-C Nitrate (as N)	0.0598	0.0257		mg/L	1	10/5/2007
						Analyst: RP
ORTHOPHOSPHATE, WATER - SM4500-P-E Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	10/5/2007
						Analyst: WFR
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR

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

$TN = DON(0.363) + PON(0.065) + NH_4(0.065) + NO_3(0.0598) + NO_2(0.0110) = 0.5638$

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.363	0.130	mg/L	1	10/22/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	10/22/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.51	0.39	mg/L	1	10/22/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	10/12/2007	

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: 27-Aug-09
Original Reported Date: 23-Oct-07CLIENT: Town of Plymouth
Project: Surface Water - Eel River

Lab Order: 0710079

Lab ID: 0710079-002

Collection Date: 10/4/2007 9:30:00 AM

Client Sample ID: S-4B A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	70.0	5.00		mg/L	1	10/9/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	10/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	1.20	0.500		mg/m ³	1	10/5/2007	
NOTES: Sample was analyzed at M-MA003.							
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	10/12/2007	
NOTES: Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	ND	0.130		mg/L	1	10/19/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	22.2	1.50		mg/L	1	10/10/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.501	0.130		mg/L	1	10/22/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	10/5/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.283	0.0257		mg/L	1	10/5/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	10/5/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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

$$TN = DON(0.550) + PON(0.065) + NH_4(0.065) + NO_3(0.283) + NO_2(0.0110) = 0.974$$

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.550	0.130	mg/L	1	10/22/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	10/22/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.90	0.39	mg/L	1	10/22/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0405	0.0400	mg/L	1	10/12/2007	

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: 27-Aug-09
Original Reported Date: 23-Oct-07

CLIENT: Town of Plymouth
Project: Surface Water - Eel River
Lab Order: 0710079

Lab ID: 0710079-003
Collection Date: 10/4/2007 9:50:00 AM
Client Sample ID: S-3A
Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed	Analyst
TOTAL DISSOLVED SOLIDS - SM2540C							Analyst: FC
Total Dissolved Solids	73.0	5.00		mg/L	1	10/9/2007	
TOTAL METALS BY ICP - E200.7							Analyst: QS
Boron	ND	0.0300		mg/L	1	10/9/2007	
CHLOROPHYLL - A							Analyst: SUB
Chlorophyll a	5.00	0.500		mg/m ³	1	10/5/2007	
NOTES: Sample was analyzed at M-MA003.							
PARTICULATE ORGANIC CARBON - E415.1							Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	10/12/2007	
NOTES: Sample was analyzed at MA-00071.							
AMMONIA (AS N) - SM18 4500-NH3-B,C							Analyst: WFR
Ammonia (as N)	ND	0.130		mg/L	1	10/19/2007	
CHLORIDE - L-10-177-07-1-B							Analyst: RP
Chloride	22.6	1.50		mg/L	1	10/10/2007	
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3							Analyst: WFR
Dissolved Inorganic Nitrogen	0.310	0.130		mg/L	1	10/22/2007	
NITRITE - L10-107-05-1-A							Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	10/5/2007	
NITRATE - L10-107-04-1-C							Analyst: RP
Nitrate (as N)	0.148	0.0257		mg/L	1	10/5/2007	
ORTHOPHOSPHATE, WATER - SM4500-P-E							Analyst: WFR
Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	10/5/2007	
DON - SM4500-NORG-B,C, SM4500-NH3-B,C							Analyst: WFR

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

$$TN = DON(0.607) + PON(0.065) + NH_4(0.065) + NO_3(0.148) + NO_2(0.0110) = 0.896$$

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
 Original Reported Date: 23-Oct-07

CLIENT: Town of Plymouth **Lab Order:** 0710079
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.607	0.130	mg/L	1	10/22/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	10/22/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.86	0.39	mg/L	1	10/22/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0509	0.0400	mg/L	1	10/12/2007	

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: 27-Aug-09
Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

Lab ID: 0710079-004

Collection Date: 10/4/2007 10:35:00 AM

Client Sample ID: S-2B

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	74.0	5.00		mg/L	1	10/9/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	10/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	4.10	0.500		mg/m ³	1	10/5/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0		mg/L	1	10/12/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	ND	0.130		mg/L	1	10/19/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	21.2	1.50		mg/L	1	10/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.190	0.130		mg/L	1	10/22/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220		mg/L	1	10/5/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.132	0.0257		mg/L	1	10/5/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	0.0639	0.0257		mg/L	1	10/5/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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

$TN = DON (0.194) + PON (0.0639) + NH_4 (0.0639) + NO_3 (0.132) + NO_2 (0.0116) = 0.914$

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
 Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.641	0.130	mg/L	1	10/22/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	10/22/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.82	0.39	mg/L	1	10/22/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	ND	0.0400	mg/L	1	10/12/2007	

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: 27-Aug-09
Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

Lab ID: 0710079-005 Collection Date: 10/4/2007 11:30:00 AM
Client Sample ID: S-6A Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C Total Dissolved Solids	63.0	5.00		mg/L	1	Analyst: FC 10/9/2007
TOTAL METALS BY ICP - E200.7 Boron	ND	0.0300		mg/L	1	Analyst: QS 10/9/2007
CHLOROPHYLL - A Chlorophyll a NOTES: Sample was analyzed at M-MA003.	2.00	0.500		mg/m ³	1	Analyst: SUB 10/5/2007
PARTICULATE ORGANIC CARBON - E415.1 Particulate Organic Carbon NOTES: Sample was analyzed at MA-00071.	ND	1.0		mg/L	1	Analyst: SUB 10/12/2007
AMMONIA (AS N) - SM18 4500-NH3-B,C Ammonia (as N)	ND	0.130		mg/L	1	Analyst: WFR 10/19/2007
CHLORIDE - L-10-177-07-1-B Chloride	18.4	1.50		mg/L	1	Analyst: RP 10/10/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3 Dissolved Inorganic Nitrogen	0.647	0.130		mg/L	1	Analyst: WFR 10/22/2007
NITRITE - L10-107-05-1-A Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 10/5/2007
NITRATE - L10-107-04-1-C Nitrate (as N)	0.416	0.0257		mg/L	1	Analyst: RP 10/5/2007
ORTHOPHOSPHATE, WATER - SM4500-P-E Phosphorus, Orthophosphate (As P)	0.0373	0.0257		mg/L	1	Analyst: WFR 10/5/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR

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

TN = DON (0.522) + PON (0.065) + NH₄ (0.065) + NO₃ (0.416) + NO₂ (0.0110) = 1.079

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.522	0.130	mg/L	1	10/22/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	10/22/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	1.0	0.39	mg/L	1	10/22/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0665	0.0400	mg/L	1	10/12/2007	

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: 27-Aug-09
Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

Lab ID: 0710079-006

Collection Date: 10/4/2007 11:45:00 AM

Client Sample ID: S-8A

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
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TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: FC
Total Dissolved Solids	68.0	5.00		mg/L	1	10/9/2007

TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	10/9/2007

CHLOROPHYLL - A						Analyst: SUB
Chlorophyll a	1.40	0.500		mg/m ³	1	10/5/2007
NOTES:	Sample was analyzed at M-MA003.					

PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	10/12/2007
NOTES:	Sample was analyzed at MA-00071.					

AMMONIA (AS N) - SM18 4500-NH3-B,C						Analyst: WFR
Ammonia (as N)	0.251	0.130		mg/L	1	10/19/2007

CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	18.4	1.50		mg/L	1	10/10/2007

DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: WFR
Dissolved Inorganic Nitrogen	0.416	0.130		mg/L	1	10/22/2007

NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	10/5/2007

NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.341	0.0257		mg/L	1	10/5/2007

ORTHOPHOSPHATE, WATER - SM4500-P-E						Analyst: WFR
Phosphorus, Orthophosphate (As P)	0.0387	0.0257		mg/L	1	10/5/2007

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
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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

TN = DON (0.238) + PON (0.065) + NH₄ (0.251) + NO₃ (0.341) + NO₂ (0.110) = 0.906

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.238	0.130	mg/L	1	10/22/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	10/22/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.83	0.39	mg/L	1	10/22/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0715	0.0400	mg/L	1	10/12/2007	

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: 27-Aug-09
Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

Lab ID: 0710079-007

Collection Date: 10/4/2007 10:50:00 AM

Client Sample ID: S-1

Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C						Analyst: FC
Total Dissolved Solids	99.0	5.00		mg/L	1	10/9/2007
TOTAL METALS BY ICP - E200.7						Analyst: QS
Boron	ND	0.0300		mg/L	1	10/9/2007
CHLOROPHYLL - A						Analyst: SUB
Chlorophyll a	0.600	0.500		mg/m ³	1	10/5/2007
NOTES: Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1						Analyst: SUB
Particulate Organic Carbon	ND	1.0		mg/L	1	10/12/2007
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C						Analyst: WFR
Ammonia (as N)	0.251	0.130		mg/L	1	10/19/2007
CHLORIDE - L-10-177-07-1-B						Analyst: RP
Chloride	35.0	1.50		mg/L	1	10/10/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3						Analyst: WFR
Dissolved Inorganic Nitrogen	0.425	0.130		mg/L	1	10/22/2007
NITRITE - L10-107-05-1-A						Analyst: RP
Nitrite (as N)	ND	0.0220		mg/L	1	10/5/2007
NITRATE - L10-107-04-1-C						Analyst: RP
Nitrate (as N)	0.363	0.0257		mg/L	1	10/5/2007
ORTHOPHOSPHATE, WATER - SM4500-P-E						Analyst: WFR
Phosphorus, Orthophosphate (As P)	0.0316	0.0257		mg/L	1	10/5/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR

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

$$TN = DON(0.164) + PON(0.065) + NH_4(0.251) + NO_3(0.363) + NO_2(0.0110) = 0.854$$

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
 Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.164	0.130	mg/L	1	10/22/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	10/22/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.78	0.39	mg/L	1	10/22/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0817	0.0400	mg/L	1	10/12/2007	

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: 27-Aug-09
Original Reported Date: 23-Oct-07

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

Lab Order: 0710079

Lab ID: 0710079-008

Collection Date: 10/4/2007 11:05:00 AM

Client Sample ID: S-9A

Matrix: SURFACE WATER

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

Analyst: FC

Total Dissolved Solids	108	5.00		mg/L	1	10/9/2007
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TOTAL METALS BY ICP - E200.7

Analyst: QS

Boron	ND	0.0300		mg/L	1	10/9/2007
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CHLOROPHYLL - A

Analyst: SUB

Chlorophyll a	ABS	0.500		mg/m ³	1	10/5/2007
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NOTES:

Sample was analyzed at M-MA003.

PARTICULATE ORGANIC CARBON - E415.1

Analyst: SUB

Particulate Organic Carbon	ND	1.0		mg/L	1	10/12/2007
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NOTES:

Sample was analyzed at MA-00071.

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

Analyst: WFR

Ammonia (as N)	0.154	0.130		mg/L	1	10/19/2007
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CHLORIDE - L-10-177-07-1-B

Analyst: RP

Chloride	43.6	1.50		mg/L	1	10/10/2007
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DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3

Analyst: WFR

Dissolved Inorganic Nitrogen	0.504	0.130		mg/L	1	10/22/2007
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NITRITE - L10-107-05-1-A

Analyst: RP

Nitrite (as N)	ND	0.0220		mg/L	1	10/5/2007
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NITRATE - L10-107-04-1-C

Analyst: RP

Nitrate (as N)	0.443	0.0257		mg/L	1	10/5/2007
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ORTHOPHOSPHATE, WATER - SM4500-P-E

Analyst: WFR

Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	10/5/2007
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DON - SM4500-NORG-B,C, SM4500-NH3-B,C

Analyst: WFR

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

$TN = DON(0.266) + PON(0.065) + NH_4(0.154) + NO_3(0.443) + NO_2(0.011) = 0.939$

ANALYTICAL REPORT

Reissue Date: 27-Aug-09
Original Reported Date: 23-Oct-07

CLIENT: Town of Plymouth **Lab Order:** 0710079
Project: Surface Water - Eel River

DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR
Dissolved Organic Nitrogen	0.266	0.130	mg/L	1	10/22/2007	
PON-SM4500-NH3-B,C, SM4500-NORG-B,C						Analyst: WFR
Particulate Organic Nitrogen	ND	0.130	mg/L	1	10/22/2007	
TDN-L10-107-05-1-A, L10-107-04-1-C, SM4500NOR						Analyst: WFR
Total Dissolved Nitrogen	0.87	0.39	mg/L	1	10/22/2007	
TOTAL PHOSPHOROUS - L10-115-01-1E						Analyst: RP
Total Phosphorous	0.0431	0.0400	mg/L	1	10/12/2007	

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: 27-Aug-09
Original Reported Date: 23-Oct-07

CLIENT: Town of Plymouth Lab Order: 0710079
Project: Surface Water - Eel River

Lab ID: 0710079-009 Collection Date: 10/4/2007 12:15:00 PM
Client Sample ID: S-8B Matrix: SURFACE WATER

Analyses	Result	Det. Limit	Qual	Units	DF	Date Analyzed
TOTAL DISSOLVED SOLIDS - SM2540C Total Dissolved Solids	85.0	5.00		mg/L	1	Analyst: FC 10/9/2007
TOTAL METALS BY ICP - E200.7 Boron	ND	0.0300		mg/L	1	Analyst: QS 10/9/2007
CHLOROPHYLL - A Chlorophyll a	1.80	0.500		mg/m ³	1	Analyst: SUB 10/5/2007
NOTES: Sample was analyzed at M-MA003.						
PARTICULATE ORGANIC CARBON - E415.1 Particulate Organic Carbon	ND	1.0		mg/L	1	Analyst: SUB 10/12/2007
NOTES: Sample was analyzed at MA-00071.						
AMMONIA (AS N) - SM18 4500-NH3-B,C Ammonia (as N)	0.171	0.130		mg/L	1	Analyst: WFR 10/19/2007
CHLORIDE - L-10-177-07-1-B Chloride	65.1	1.50		mg/L	1	Analyst: RP 10/10/2007
DIN-L10-107-05-1-A, L10-107-04-1-C, SM4500-NH3 Dissolved Inorganic Nitrogen	0.250	0.130		mg/L	1	Analyst: WFR 10/22/2007
NITRITE - L10-107-05-1-A Nitrite (as N)	ND	0.0220		mg/L	1	Analyst: RP 10/5/2007
NITRATE - L10-107-04-1-C Nitrate (as N)	0.227	0.0257		mg/L	1	Analyst: RP 10/5/2007
ORTHOPHOSPHATE, WATER - SM4500-P-E Phosphorus, Orthophosphate (As P)	ND	0.0257		mg/L	1	Analyst: WFR 10/5/2007
DON - SM4500-NORG-B,C, SM4500-NH3-B,C						Analyst: WFR

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

$TN = DON(0.172) + PON(0.065) + NH_4(0.171) + NO_3(0.227) + NO_2(0.0110) = 0.616$

Laboratory:

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

Chain of Custody

0710079

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), Kerin McCall (KM)

001

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/4/7	0905	S-5B	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	500mL Plastic	NH ₃ , T-Phosphorus	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
			1	1 Liter	PON	H2SO4
			1	500mL Plastic	TDS	NONE
10/4/7	0930	S-4B	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	500mL Plastic	NH ₃ , T-Phosphorus	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
			1	1 Liter	PON	H2SO4
			1	500mL Plastic	TDS	NONE

002

Relinquished By: Date/Time

Kim Michaelis 10/4/7

Kerin McCall 10/4/07 3:30

Received By: Date/Time:

Kerin McCall 10/4/07 2:40

R.B. 10-4-07 3:40

Laboratory:

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

Chain of Custody

0710079

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), Kerin McCall (KM)

003

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/4/7	0950	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	500mL Plastic	NH ₃ , T-Phosphorus	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
			1	1 Liter	PON	H2SO4
			1	500mL Plastic	TDS	NONE
10/4/7	1035	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	500mL Plastic	NH ₃ , T-Phosphorus	H2SO4
			1	250 mL Amber Glass	Chlorophyll-a	NONE
			1	1 Liter	PON	H2SO4
			1	500mL Plastic	TDS	NONE

004

Relinquished By: Date/Time

Kim Michaelis 10/4/7

Kerin McCall 10/4/07 3:32

Received By: Date/Time:

Kim Michaelis 10/4/07 2:40

R. B. 10-4-07 3:40

Laboratory:

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

Chain of Custody

0710079

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), Kerin McCall (KM)

005

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative	
10/4/7	1130	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	500mL Plastic	NH ₃ , T-Phosphorus	H ₂ SO ₄	
			1	250 mL Amber Glass	Chlorophyll-a	NONE	
			1	1 Liter	PON	H ₂ SO ₄	
			1	500mL Plastic	TDS	NONE	
006	10/4/7	1145	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	500mL Plastic	NH ₃ , T-Phosphorus	H ₂ SO ₄	
			1	250 mL Amber Glass	Chlorophyll-a	NONE	
			1	1 Liter	PON	H ₂ SO ₄	
			1	500mL Plastic	TDS	NONE	

Relinquished By: Date/Time

Kim Michaelis 10/4/7

Kerin McCall 10/4/07 3:30

Received By: Date/Time:

Kerin McCall 10/4/07 2:40

R. B. 10-4-07 3:40

Laboratory:

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

Chain of Custody

0710079

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), Kerin McCall (KM)

007

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/4/7	1050	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	500mL Plastic	NH ₃ , T-Phosphorus	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
			1	1 Liter	PON	H ₂ SO ₄
			1	500mL Plastic	TDS	NONE
10/4/7	1105	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	500mL Plastic	NH ₃ , T-Phosphorus	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
			1	1 Liter	PON	H ₂ SO ₄
			1	500mL Plastic	TDS	NONE

008

Relinquished By: Date/Time

Kim Michaelis 10/4/7

Kerin McCall 10/4/07 3:30

Received By: Date/Time:

Kim Michaelis 10/4/07 2:40

R. B. 10-4-07 3:40

Laboratory:

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

Chain of Custody

0710079

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), Kerin McCall (KM)

009

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
10/4/7	1215	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	500mL Plastic	NH ₃ , T-Phosphorus	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
			1	1 Liter	PON	H ₂ SO ₄
			1	500mL Plastic	TDS	NONE

			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	500mL Plastic	NH ₃ , T-Phosphorus	H ₂ SO ₄
			1	250 mL Amber Glass	Chlorophyll-a	NONE
			1	1 Liter	PON	H ₂ SO ₄
			1	500mL Plastic	TDS	NONE

Relinquished By: Date/Time

Kim Michaelis, 10/4/7

Kerin McCall 10/4/07 3:30

Received By: Date/Time:

Kim Michaelis 10/4/07 2:40

R. B. 10-4-07 3:48