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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230309*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
DW-1 A	07:30	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.61	0.01	03/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.82	NA	03/17/23	KF	Calculation
Total Dissolved Solids	mg/L	34	6.0	03/14/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	BRL	0.005	03/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.722	0.017	03/08/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	1.74*	*	03/16/23	NEC*	*
Total Iron	mg/L	4.52	0.050	03/11/23	KB	EPA 200.7
Boron	mg/L	0.015	0.010	03/11/23	KB	EPA 200.7
Copper	mg/L	0.004	0.003	03/11/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	03/14/23	RIA*	SM4500 NH3 C
Chloride	mg/L	13	3.0	03/09/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.21	0.10	04/06/23	IP	SM4500 Norg B-C
Ortho Phosphorous (P)	mg/L	BRL	0.005	03/08/23	IP	SM 4500-P
Mercury*	mg/L	BRL	0.0002	03/13/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.022	0.005	03/23/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	03/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.438	0.017	03/08/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.61	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.2	NA	07/05/23	KB	Calculation
Particulate Organic Carbon	mg/L	0.284	NA	03/23/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.21	NA	03/21/23	RIA*	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* **Comments:**
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230309*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
DW-1 A	07:30	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.61	NA	03/17/23	KF	Calculation

*Trace to low levels of chloroform are occasionally detected in ground water in coastline areas.

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

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

BRL=below reportable limits

**see attached*

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230310*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
Bradford A	08:00	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.61	0.01	03/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.82	NA	07/05/23	KB	Calculation
Total Dissolved Solids	mg/L	34	6.0	03/14/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.007	0.005	03/14/23	IP	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.706	0.017	03/08/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	1.72*	*	03/16/23	NEC*	*
Total Iron	mg/L	4.61	0.050	03/11/23	KB	EPA 200.7
Boron	mg/L	0.015	0.010	03/11/23	KB	EPA 200.7
Copper	mg/L	0.004	0.003	03/11/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	03/14/23	RIA*	SM4500 NH3 C
Chloride	mg/L	13	3.0	03/09/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.21	0.10	04/06/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	03/13/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.021	0.005	03/23/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	03/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.454	0.017	03/08/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.61	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.2	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	03/08/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.252	NA	03/23/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.21	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* **Comments:**
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230310*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
Bradford A	08:00	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.61	NA	07/05/23	KB	Calculation

*Trace to low levels of chloroform are occasionally detected in ground water in coastline areas.

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

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

BRL=below reportable limits

**see attached*

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Thursday, July 6, 2023

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

ProjectName: *Groundwater Eel River*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230311*
Date Received: *03/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
A13 A	08:20	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.60	0.01	03/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.0	NA	07/05/23	KB	Calculation
Total Dissolved Solids	mg/L	270	6.0	03/14/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.013	0.005	03/14/23	IP	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.557	0.017	03/08/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	3.25	*	03/16/23	NEC*	*
Total Iron	mg/L	9.38	0.050	03/11/23	KB	EPA 200.7
Boron	mg/L	0.068	0.010	03/11/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	03/11/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.17	0.02	03/14/23	RIA*	SM4500 NH3 C
Chloride	mg/L	148	3.0	03/09/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.42	0.10	04/06/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	03/16/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.096	0.005	03/23/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	03/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.074	0.017	03/08/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.77	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.11	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	03/08/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.483	NA	03/23/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: _____
Ronald J. Saari
Laboratory Director

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

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

Thursday, July 6, 2023

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

ProjectName: *Groundwater Eel River*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230311*
Date Received: *03/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
A13 A	08:20	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.88	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

**see attached*

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

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230312*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
A17 A	08:50	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	2.3	0.01	03/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	2.9	NA	07/05/23	KB	Calculation
Total Dissolved Solids	mg/L	552	6.0	03/14/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.016	0.005	03/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.411	0.017	03/08/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	1.87*	*	03/16/23	NEC*	*
Total Iron	mg/L	0.162	0.050	03/11/23	KB	EPA 200.7
Boron	mg/L	0.175	0.010	03/11/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	03/11/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	03/14/23	RIA*	SM4500 NH3 C
Chloride	mg/L	290	3.0	03/09/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.56	0.10	04/06/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	03/16/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.016	0.005	03/23/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.42	0.20	03/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.142	0.017	03/08/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	2.3	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.42	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.008	0.005	03/08/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.269	NA	03/23/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230312*
Date Received: *03/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
A17 A	08:50	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	2.7	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

**see attached*

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* **Comments:**
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230313*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
2S A	09:10	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.70	0.01	03/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.7	NA	07/05/23	KB	Calculation
Total Dissolved Solids	mg/L	158	6.0	03/14/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	BRL	0.005	03/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.651	0.017	03/08/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	None Detected	*	03/16/23	NEC*	*
Total Iron	mg/L	0.438	0.050	03/11/23	KB	EPA 200.7
Boron	mg/L	0.013	0.010	03/11/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	03/11/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	03/14/23	RIA*	SM4500 NH3 C
Chloride	mg/L	85	3.0	03/09/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.98	0.10	04/06/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	03/13/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.127	0.005	03/28/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	03/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.282	0.017	03/08/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.70	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.21	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	03/08/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.369	NA	03/23/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.77	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* **Comments:**
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230313*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
2S A	09:10	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.91	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

**see attached*

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230314*
Date Received: *03/08/23*

Sample Type	*Sample Time*	*Sample Date*	*Comments*			
2D A	09:20	03/08/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***
Nitrate-N	mg/L	0.61	0.01	03/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.89	NA	07/05/23	KB	Calculation
Total Dissolved Solids	mg/L	104	6.0	03/14/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.009	0.005	03/23/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.64	0.017	03/08/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	None Detected	*	03/16/23	NEC*	*
Total Iron	mg/L	3.37	0.050	03/11/23	KB	EPA 200.7
Boron	mg/L	0.015	0.010	03/11/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	03/11/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	03/15/23	RIA*	SM4500 NH3 C
Chloride	mg/L	52	3.0	03/09/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.28	0.10	04/06/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	03/13/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.081	0.005	03/28/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	03/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.36	0.017	03/08/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.61	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.21	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	03/08/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.28	NA	03/23/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* **Comments:**
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230314*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
2D A	09:20	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.82	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

**see attached*

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

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230315*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
5S A	09:45	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.85	0.01	03/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.1	NA	07/05/23	KB	Calculation
Total Dissolved Solids	mg/L	164	6.0	03/14/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.055	0.005	03/23/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.661	0.017	03/08/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	3.49*	*	03/16/23	NEC*	*
Total Iron	mg/L	0.354	0.050	03/11/23	KB	EPA 200.7
Boron	mg/L	0.014	0.010	03/11/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	03/11/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	03/15/23	RIA*	SM4500 NH3 C
Chloride	mg/L	83	3.0	03/09/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.21	0.10	04/06/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	03/13/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.069	0.005	03/28/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	03/17/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.483	0.017	03/08/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.85	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.2	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.055	0.005	03/08/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.178	NA	03/23/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.21	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: Groundwater Eel River
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230315
Date Received: 03/08/23
Comments:

Sample Type	Sample Time	Sample Date	Comments			
5S A	09:45	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.85	NA	07/05/23	KB	Calculation

*Trace to low levels of chloroform are occasionally detected in ground water in coastline areas.

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

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

BRL=below reportable limits

**see attached*

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

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230316*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
A15 A	10:10	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	1.6	0.01	03/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	2.0	NA	07/05/23	KB	Calculation
Total Dissolved Solids	mg/L	120	6.0	03/14/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.033	0.005	03/23/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.349	0.017	03/08/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	None Detected	*	03/16/23	NEC*	*
Total Iron	mg/L	4.42	0.050	03/11/23	KB	EPA 200.7
Boron	mg/L	0.026	0.010	03/11/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	03/11/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.022	0.02	03/15/23	RIA*	SM4500 NH3 C
Chloride	mg/L	39	3.0	03/09/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.35	0.10	04/06/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	03/13/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.308	0.005	03/28/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	03/17/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.039	0.017	03/08/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	1.6	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.3	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.031	0.005	03/08/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.31	NA	03/23/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwater Eel River* **Comments:**
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230316*
Date Received: *03/08/23*

Sample Type	Sample Time	Sample Date	Comments			
A15 A	10:10	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	2.0	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

**see attached*

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

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwarer Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230317*
Date Received: *03/08/23*

Sample Type	***Sample Time***	***Sample Date***	***Comments***			
7SR A	10:40	03/08/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***
Nitrate-N	mg/L	0.98	0.01	03/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.5	NA	07/05/23	KB	Calculation
Total Dissolved Solids	mg/L	986	6.0	03/14/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.011	0.005	03/23/23	IP	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.205	0.017	03/08/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	None Detected	*	03/16/23	NEC*	*
Total Iron	mg/L	4.10	0.050	03/11/23	KB	EPA 200.7
Boron	mg/L	0.020	0.010	03/11/23	KB	EPA 200.7
Copper	mg/L	0.003	0.003	03/11/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	03/15/23	RIA*	SM4500 NH3 C
Chloride	mg/L	540	3.0	03/09/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.56	0.10	04/06/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	03/13/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.287	0.005	03/28/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	04/11/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	BRL	0.017	03/08/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.98	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.35	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	03/08/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.205	NA	03/23/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	NA	07/05/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, July 5, 2023

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

ProjectName: *Groundwarer Eel River*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230317*
Date Received: *03/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
7SR A	10:40	03/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	1.3	NA	04/13/23	IP	Calculation

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

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

BRL=below reportable limits

**see attached*

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

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

Date Received: 3/9/2023
Date Reported: 3/16/2023
P.O. Number WW-230309-17

Work Order #: 2303-03872
Project Name: PLYMOUTH ENV.

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

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

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

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

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

Approved by:

Brent Plant
Data Reporting

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2303-03872
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-230309 DW-1
Sample Type : GRAB
Sample Date / Time : 3/08/2023 @ 07:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	3/14/2023	11:06	KPG
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	3/13/2023	13:49	RMS
Mercury Digestion				EPA 245.1	3/11/2023	10:30	GSW

Sample Number: 002
Sample Description: WW-230310 BRADFORD
Sample Type : GRAB
Sample Date / Time : 3/08/2023 @ 08:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	3/14/2023	11:06	KPG
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	3/13/2023	13:50	RMS
Mercury Digestion				EPA 245.1	3/11/2023	10:30	GSW

Sample Number: 003
Sample Description: WW-230311 A13
Sample Type : GRAB
Sample Date / Time : 3/08/2023 @ 08:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.17	0.020	mg/L	SM4500NH3-B,H 18-21ed	3/14/2023	11:06	KPG
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	3/16/2023	14:57	RMS
Mercury Digestion				EPA 245.1	3/11/2023	10:30	GSW

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2303-03872
Project Name: PLYMOUTH ENV.

Sample Number: 004
Sample Description: WW-230312 A17
Sample Type : GRAB
Sample Date / Time : 3/08/2023 @ 08:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	3/14/2023	11:06	KPG
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	3/16/2023	15:01	RMS
Mercury Digestion				EPA 245.1	3/11/2023	10:30	GSW

Sample Number: 005
Sample Description: WW-230313 2S
Sample Type : GRAB
Sample Date / Time : 3/08/2023 @ 09:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	3/14/2023	11:06	KPG
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	3/13/2023	13:52	RMS
Mercury Digestion				EPA 245.1	3/11/2023	10:30	GSW

Sample Number: 006
Sample Description: WW-230314 2D
Sample Type : GRAB
Sample Date / Time : 3/08/2023 @ 09:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	3/15/2023	12:46	KPG
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	3/13/2023	13:53	RMS
Mercury Digestion				EPA 245.1	3/11/2023	10:30	GSW

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2303-03872
Project Name: PLYMOUTH ENV.

Sample Number: 007
Sample Description: WW-230315 5S
Sample Type : GRAB
Sample Date / Time : 3/08/2023 @ 09:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	3/15/2023	12:46	KPG
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	3/13/2023	13:54	RMS
Mercury Digestion				EPA 245.1	3/11/2023	10:30	GSW

Sample Number: 008
Sample Description: WW-230316 A15
Sample Type : GRAB
Sample Date / Time : 3/08/2023 @ 10:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.022	0.020	mg/L	SM4500NH3-B,H 18-21ed	3/15/2023	12:46	KPG
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	3/13/2023	13:35	RMS
Mercury Digestion				EPA 245.1	3/11/2023	10:30	GSW

Sample Number: 009
Sample Description: WW-230317 7SR
Sample Type : GRAB
Sample Date / Time : 3/08/2023 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	3/15/2023	12:46	KPG
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	3/13/2023	13:46	RMS
Mercury Digestion				EPA 245.1	3/11/2023	10:30	GSW

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

Sample Information

EPA Method 524.2 Rev 4.1 Volatile Organic Compounds in Water	
Lab ID:	303207
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-230309
State:	Liquid
Date Sampled:	03/08/23
Date Received:	03/16/23
Date Analyzed:	03/16/23

Regulated VOC's	Results (ug/L)	MCL (ug/L)
Benzene	ND	5
Carbon Tetrachloride	ND	5
1,1-Dichloroethene	ND	7
1,2-Dichloroethane	ND	5
1,2-Dichlorobenzene	ND	600
1,4-Dichlorobenzene	ND	5
Trichloroethene	ND	5
1,1,1-Trichloroethane	ND	200
Vinyl Chloride	ND	2
Chlorobenzene	ND	100
cis-1,2-dichloroethene	ND	70
trans-1,2-dichloroethene	ND	100
1,2-Dichloropropane	ND	5
Ethylbenzene	ND	700
Styrene	ND	100
Tetrachloroethene	ND	5
Toluene	ND	1000
Xylenes(Total)	ND	10000
Methylene Chloride	ND	5
1,2,4-Trichlorobenzene	ND	70
1,1,2-Trichloroethane	ND	5

Unregulated VOC's	Results (ug/L)
Acetone*	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND
2-Butanone	ND
N-Butylbenzene	ND
Sec-Butylbenzene	ND
Tert-Butylbenzene	ND
Chloroethane	ND
Chloroform	1.74
Chloromethane	ND
2-Chlorotoluene	ND
4-Chlorotoluene	ND
Dibromochloromethane	ND
1,2-Dibromo-3-Chloropropane	ND
1,2-Dibromoethane	ND
Dibromomethane	ND
1,3-Dichlorobenzene	ND
Dichlorodifluoromethane	ND
1,1-Dichloroethane	ND
1,3-Dichloropropane	ND
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
P-Isopropyltoluene	ND
Methyl-tert-butyl ether	ND
Naphthalene	ND
N-Propylbenzene	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
1,2,3-Trichlorobenzene	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND

* Acetone Detection Limit = 10 ug/L
ND = < Method Detection Limit
NA = Not Analyzed
MRL = 0.5 ug/L
Dilution Factor = 1

Surrogate Standard Recoveries	%
Benzene-d6	98
4-Bromofluorobenzene	101
1,2-Dichlorobenzene-d4	106

MCL TTHM's = 80 ug/L
Method Detection Limit = 0.5 ug/L
Analysis performed per 310CMR42

Electronically signed and approved by Mr. Bruce A. Bornstein, Lab Director Date: 3/20/2023

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

Sample Information

EPA Method 524.2 Rev 4.1 Volatile Organic Compounds in Water	
Lab ID:	303208
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-230310
State:	Liquid
Date Sampled:	03/08/23
Date Received:	03/16/23
Date Analyzed:	03/16/23

Regulated VOC's	Results (ug/L)	MCL (ug/L)
Benzene	ND	5
Carbon Tetrachloride	ND	5
1,1-Dichloroethene	ND	7
1,2-Dichloroethane	ND	5
1,2-Dichlorobenzene	ND	600
1,4-Dichlorobenzene	ND	5
Trichloroethene	ND	5
1,1,1-Trichloroethane	ND	200
Vinyl Chloride	ND	2
Chlorobenzene	ND	100
cis-1,2-dichloroethene	ND	70
trans-1,2-dichloroethene	ND	100
1,2-Dichloropropane	ND	5
Ethylbenzene	ND	700
Styrene	ND	100
Tetrachloroethene	ND	5
Toluene	ND	1000
Xylenes(Total)	ND	10000
Methylene Chloride	ND	5
1,2,4-Trichlorobenzene	ND	70
1,1,2-Trichloroethane	ND	5

* Acetone Detection Limit = 10 ug/L
ND = < Method Detection Limit
NA = Not Analyzed
MRL = 0.5 ug/L
Dilution Factor = 1

Unregulated VOC's	Results (ug/L)
Acetone*	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND
2-Butanone	ND
N-Butylbenzene	ND
Sec-Butylbenzene	ND
Tert-Butylbenzene	ND
Chloroethane	ND
Chloroform	1.72
Chloromethane	ND
2-Chlorotoluene	ND
4-Chlorotoluene	ND
Dibromochloromethane	ND
1,2-Dibromo-3-Chloropropane	ND
1,2-Dibromoethane	ND
Dibromomethane	ND
1,3-Dichlorobenzene	ND
Dichlorodifluoromethane	ND
1,1-Dichloroethane	ND
1,3-Dichloropropane	ND
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
P-Isopropyltoluene	ND
Methyl-tert-butyl ether	ND
Naphthalene	ND
N-Propylbenzene	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
1,2,3-Trichlorobenzene	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND

Surrogate Standard Recoveries	%
Benzene-d6	96
4-Bromofluorobenzene	96
1,2-Dichlorobenzene-d4	102

MCL TTHM's = 80 ug/L
Method Detection Limit = 0.5 ug/L
Analysis performed per 310CMR42

Electronically signed and approved by Mr. Bruce A. Bornstein, Lab Director Date: 3/20/2023

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

Sample Information

EPA Method 524.2 Rev 4.1 Volatile Organic Compounds in Water	
Lab ID:	303209
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-230311
State:	Liquid
Date Sampled:	03/08/23
Date Received:	03/16/23
Date Analyzed:	03/16/23

Regulated VOC's	Results (ug/L)	MCL (ug/L)
Benzene	ND	5
Carbon Tetrachloride	ND	5
1,1-Dichloroethene	ND	7
1,2-Dichloroethane	ND	5
1,2-Dichlorobenzene	ND	600
1,4-Dichlorobenzene	ND	5
Trichloroethene	ND	5
1,1,1-Trichloroethane	ND	200
Vinyl Chloride	ND	2
Chlorobenzene	ND	100
cis-1,2-dichloroethene	ND	70
trans-1,2-dichloroethene	ND	100
1,2-Dichloropropane	ND	5
Ethylbenzene	ND	700
Styrene	ND	100
Tetrachloroethene	ND	5
Toluene	ND	1000
Xylenes(Total)	ND	10000
Methylene Chloride	ND	5
1,2,4-Trichlorobenzene	ND	70
1,1,2-Trichloroethane	ND	5

* Acetone Detection Limit = 10 ug/L
ND = < Method Detection Limit
NA = Not Analyzed
MRL = 0.5 ug/L
Dilution Factor = 1

Unregulated VOC's	Results (ug/L)
Acetone*	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND
2-Butanone	ND
N-Butylbenzene	ND
Sec-Butylbenzene	ND
Tert-Butylbenzene	ND
Chloroethane	ND
Chloroform	ND
Chloromethane	ND
2-Chlorotoluene	ND
4-Chlorotoluene	ND
Dibromochloromethane	ND
1,2-Dibromo-3-Chloropropane	ND
1,2-Dibromoethane	ND
Dibromomethane	ND
1,3-Dichlorobenzene	ND
Dichlorodifluoromethane	ND
1,1-Dichloroethane	ND
1,3-Dichloropropane	ND
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
P-Isopropyltoluene	ND
Methyl-tert-butyl ether	3.25
Naphthalene	ND
N-Propylbenzene	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
1,2,3-Trichlorobenzene	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND

Surrogate Standard Recoveries	%
Benzene-d6	100
4-Bromofluorobenzene	101
1,2-Dichlorobenzene-d4	108

MCL TTHM's = 80 ug/L
Method Detection Limit = 0.5 ug/L
Analysis performed per 310CMR42

Electronically signed and approved by Mr. Bruce A. Bornstein, Lab Director Date: 3/20/2023

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

Sample Information

EPA Method 524.2 Rev 4.1 Volatile Organic Compounds in Water	
Lab ID:	303210
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-230312
State:	Liquid
Date Sampled:	03/08/23
Date Received:	03/16/23
Date Analyzed:	03/16/23

Regulated VOC's	Results (ug/L)	MCL (ug/L)
Benzene	ND	5
Carbon Tetrachloride	ND	5
1,1-Dichloroethene	ND	7
1,2-Dichloroethane	ND	5
1,2-Dichlorobenzene	ND	600
1,4-Dichlorobenzene	ND	5
Trichloroethene	ND	5
1,1,1-Trichloroethane	ND	200
Vinyl Chloride	ND	2
Chlorobenzene	ND	100
cis-1,2-dichloroethene	ND	70
trans-1,2-dichloroethene	ND	100
1,2-Dichloropropane	ND	5
Ethylbenzene	ND	700
Styrene	ND	100
Tetrachloroethene	ND	5
Toluene	ND	1000
Xylenes(Total)	ND	10000
Methylene Chloride	ND	5
1,2,4-Trichlorobenzene	ND	70
1,1,2-Trichloroethane	ND	5

* Acetone Detection Limit = 10 ug/L
ND = < Method Detection Limit
NA = Not Analyzed
MRL = 0.5 ug/L
Dilution Factor = 1

Unregulated VOC's	Results (ug/L)
Acetone*	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND
2-Butanone	ND
N-Butylbenzene	ND
Sec-Butylbenzene	ND
Tert-Butylbenzene	ND
Chloroethane	ND
Chloroform	1.87
Chloromethane	ND
2-Chlorotoluene	ND
4-Chlorotoluene	ND
Dibromochloromethane	ND
1,2-Dibromo-3-Chloropropane	ND
1,2-Dibromoethane	ND
Dibromomethane	ND
1,3-Dichlorobenzene	ND
Dichlorodifluoromethane	ND
1,1-Dichloroethane	ND
1,3-Dichloropropane	ND
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
P-Isopropyltoluene	ND
Methyl-tert-butyl ether	ND
Naphthalene	ND
N-Propylbenzene	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
1,2,3-Trichlorobenzene	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND

Surrogate Standard Recoveries	%
Benzene-d6	98
4-Bromofluorobenzene	99
1,2-Dichlorobenzene-d4	103

MCL TTHM's = 80 ug/L
Method Detection Limit = 0.5 ug/L
Analysis performed per 310CMR42

Electronically signed and approved by Mr. Bruce A. Bornstein, Lab Director Date: 3/20/2023

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

Sample Information

EPA Method 524.2 Rev 4.1 Volatile Organic Compounds in Water	
Lab ID:	303211
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-230313
State:	Liquid
Date Sampled:	03/08/23
Date Received:	03/16/23
Date Analyzed:	03/16/23

Regulated VOC's	Results (ug/L)	MCL (ug/L)
Benzene	ND	5
Carbon Tetrachloride	ND	5
1,1-Dichloroethene	ND	7
1,2-Dichloroethane	ND	5
1,2-Dichlorobenzene	ND	600
1,4-Dichlorobenzene	ND	5
Trichloroethene	ND	5
1,1,1-Trichloroethane	ND	200
Vinyl Chloride	ND	2
Chlorobenzene	ND	100
cis-1,2-dichloroethene	ND	70
trans-1,2-dichloroethene	ND	100
1,2-Dichloropropane	ND	5
Ethylbenzene	ND	700
Styrene	ND	100
Tetrachloroethene	ND	5
Toluene	ND	1000
Xylenes(Total)	ND	10000
Methylene Chloride	ND	5
1,2,4-Trichlorobenzene	ND	70
1,1,2-Trichloroethane	ND	5

* Acetone Detection Limit = 10 ug/L
ND = < Method Detection Limit
NA = Not Analyzed
MRL = 0.5 ug/L
Dilution Factor = 1

Unregulated VOC's	Results (ug/L)
Acetone*	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND
2-Butanone	ND
N-Butylbenzene	ND
Sec-Butylbenzene	ND
Tert-Butylbenzene	ND
Chloroethane	ND
Chloroform	ND
Chloromethane	ND
2-Chlorotoluene	ND
4-Chlorotoluene	ND
Dibromochloromethane	ND
1,2-Dibromo-3-Chloropropane	ND
1,2-Dibromoethane	ND
Dibromomethane	ND
1,3-Dichlorobenzene	ND
Dichlorodifluoromethane	ND
1,1-Dichloroethane	ND
1,3-Dichloropropane	ND
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
P-Isopropyltoluene	ND
Methyl-tert-butyl ether	ND
Naphthalene	ND
N-Propylbenzene	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
1,2,3-Trichlorobenzene	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND

Surrogate Standard Recoveries	%
Benzene-d6	102
4-Bromofluorobenzene	101
1,2-Dichlorobenzene-d4	103

MCL TTHM's = 80 ug/L
Method Detection Limit = 0.5 ug/L
Analysis performed per 310CMR42

Electronically signed and approved by Mr. Bruce A. Bornstein, Lab Director Date: 3/20/2023

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

Sample Information

EPA Method 524.2 Rev 4.1 Volatile Organic Compounds in Water	
Lab ID:	303212
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-230314
State:	Liquid
Date Sampled:	03/08/23
Date Received:	03/16/23
Date Analyzed:	03/16/23

Regulated VOC's	Results (ug/L)	MCL (ug/L)
Benzene	ND	5
Carbon Tetrachloride	ND	5
1,1-Dichloroethene	ND	7
1,2-Dichloroethane	ND	5
1,2-Dichlorobenzene	ND	600
1,4-Dichlorobenzene	ND	5
Trichloroethene	ND	5
1,1,1-Trichloroethane	ND	200
Vinyl Chloride	ND	2
Chlorobenzene	ND	100
cis-1,2-dichloroethene	ND	70
trans-1,2-dichloroethene	ND	100
1,2-Dichloropropane	ND	5
Ethylbenzene	ND	700
Styrene	ND	100
Tetrachloroethene	ND	5
Toluene	ND	1000
Xylenes(Total)	ND	10000
Methylene Chloride	ND	5
1,2,4-Trichlorobenzene	ND	70
1,1,2-Trichloroethane	ND	5

Unregulated VOC's	Results (ug/L)
Acetone*	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND
2-Butanone	ND
N-Butylbenzene	ND
Sec-Butylbenzene	ND
Tert-Butylbenzene	ND
Chloroethane	ND
Chloroform	ND
Chloromethane	ND
2-Chlorotoluene	ND
4-Chlorotoluene	ND
Dibromochloromethane	ND
1,2-Dibromo-3-Chloropropane	ND
1,2-Dibromoethane	ND
Dibromomethane	ND
1,3-Dichlorobenzene	ND
Dichlorodifluoromethane	ND
1,1-Dichloroethane	ND
1,3-Dichloropropane	ND
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
P-Isopropyltoluene	ND
Methyl-tert-butyl ether	ND
Naphthalene	ND
N-Propylbenzene	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
1,2,3-Trichlorobenzene	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND

* Acetone Detection Limit = 10 ug/L
ND = < Method Detection Limit
NA = Not Analyzed
MRL = 0.5 ug/L
Dilution Factor = 1

Surrogate Standard Recoveries	%
Benzene-d6	98
4-Bromofluorobenzene	106
1,2-Dichlorobenzene-d4	108

MCL TTHM's = 80 ug/L
Method Detection Limit = 0.5 ug/L
Analysis performed per 310CMR42

Electronically signed and approved by Mr. Bruce A. Bornstein, Lab Director Date: 3/20/2023

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

Sample Information

EPA Method 524.2 Rev 4.1 Volatile Organic Compounds in Water	
Lab ID:	303213
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-230315
State:	Liquid
Date Sampled:	03/08/23
Date Received:	03/16/23
Date Analyzed:	03/16/23

Regulated VOC's	Results (ug/L)	MCL (ug/L)
Benzene	ND	5
Carbon Tetrachloride	ND	5
1,1-Dichloroethene	ND	7
1,2-Dichloroethane	ND	5
1,2-Dichlorobenzene	ND	600
1,4-Dichlorobenzene	ND	5
Trichloroethene	ND	5
1,1,1-Trichloroethane	ND	200
Vinyl Chloride	ND	2
Chlorobenzene	ND	100
cis-1,2-dichloroethene	ND	70
trans-1,2-dichloroethene	ND	100
1,2-Dichloropropane	ND	5
Ethylbenzene	ND	700
Styrene	ND	100
Tetrachloroethene	ND	5
Toluene	ND	1000
Xylenes(Total)	ND	10000
Methylene Chloride	ND	5
1,2,4-Trichlorobenzene	ND	70
1,1,2-Trichloroethane	ND	5

Unregulated VOC's	Results (ug/L)
Acetone*	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND
2-Butanone	ND
N-Butylbenzene	ND
Sec-Butylbenzene	ND
Tert-Butylbenzene	ND
Chloroethane	ND
Chloroform	3.40
Chloromethane	ND
2-Chlorotoluene	ND
4-Chlorotoluene	ND
Dibromochloromethane	ND
1,2-Dibromo-3-Chloropropane	ND
1,2-Dibromoethane	ND
Dibromomethane	ND
1,3-Dichlorobenzene	ND
Dichlorodifluoromethane	ND
1,1-Dichloroethane	ND
1,3-Dichloropropane	ND
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
P-Isopropyltoluene	ND
Methyl-tert-butyl ether	ND
Naphthalene	ND
N-Propylbenzene	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
1,2,3-Trichlorobenzene	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND

* Acetone Detection Limit = 50 ug/L
ND = < Method Detection Limit
NA = Not Analyzed
MRL = 2.5 ug/L
Note: This sample exhibited excessive foaming and could not be analyzed at a lower detection limit.

Surrogate Standard Recoveries	%
Benzene-d6	102
4-Bromofluorobenzene	95
1,2-Dichlorobenzene-d4	95

MCL TTHM's = 80 ug/L
Method Detection Limit = 2.5 ug/L
Analysis performed per 310CMR42

Electronically signed and approved by Mr. Bruce A. Bornstein, Lab Director Date: 3/20/2023

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

Sample Information

EPA Method 524.2 Rev 4.1 Volatile Organic Compounds in Water	
Lab ID:	303214
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-230316
State:	Liquid
Date Sampled:	03/08/23
Date Received:	03/16/23
Date Analyzed:	03/16/23

Regulated VOC's	Results (ug/L)	MCL (ug/L)
Benzene	ND	5
Carbon Tetrachloride	ND	5
1,1-Dichloroethene	ND	7
1,2-Dichloroethane	ND	5
1,2-Dichlorobenzene	ND	600
1,4-Dichlorobenzene	ND	5
Trichloroethene	ND	5
1,1,1-Trichloroethane	ND	200
Vinyl Chloride	ND	2
Chlorobenzene	ND	100
cis-1,2-dichloroethene	ND	70
trans-1,2-dichloroethene	ND	100
1,2-Dichloropropane	ND	5
Ethylbenzene	ND	700
Styrene	ND	100
Tetrachloroethene	ND	5
Toluene	ND	1000
Xylenes(Total)	ND	10000
Methylene Chloride	ND	5
1,2,4-Trichlorobenzene	ND	70
1,1,2-Trichloroethane	ND	5

* Acetone Detection Limit = 10 ug/L
ND = < Method Detection Limit
NA = Not Analyzed
MRL = 0.5 ug/L
Dilution Factor = 1

Unregulated VOC's	Results (ug/L)
Acetone*	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND
2-Butanone	ND
N-Butylbenzene	ND
Sec-Butylbenzene	ND
Tert-Butylbenzene	ND
Chloroethane	ND
Chloroform	ND
Chloromethane	ND
2-Chlorotoluene	ND
4-Chlorotoluene	ND
Dibromochloromethane	ND
1,2-Dibromo-3-Chloropropane	ND
1,2-Dibromoethane	ND
Dibromomethane	ND
1,3-Dichlorobenzene	ND
Dichlorodifluoromethane	ND
1,1-Dichloroethane	ND
1,3-Dichloropropane	ND
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
P-Isopropyltoluene	ND
Methyl-tert-butyl ether	ND
Naphthalene	ND
N-Propylbenzene	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
1,2,3-Trichlorobenzene	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND

Surrogate Standard Recoveries	%
Benzene-d6	100
4-Bromofluorobenzene	103
1,2-Dichlorobenzene-d4	105

MCL TTHM's = 80 ug/L
Method Detection Limit = 0.5 ug/L
Analysis performed per 310CMR42

Electronically signed and approved by Mr. Bruce A. Bornstein, Lab Director Date: 3/20/2023

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

Sample Information

EPA Method 524.2 Rev 4.1 Volatile Organic Compounds in Water	
Lab ID:	303215
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-230317
State:	Liquid
Date Sampled:	03/08/23
Date Received:	03/16/23
Date Analyzed:	03/16/23

Regulated VOC's	Results (ug/L)	MCL (ug/L)
Benzene	ND	5
Carbon Tetrachloride	ND	5
1,1-Dichloroethene	ND	7
1,2-Dichloroethane	ND	5
1,2-Dichlorobenzene	ND	600
1,4-Dichlorobenzene	ND	5
Trichloroethene	ND	5
1,1,1-Trichloroethane	ND	200
Vinyl Chloride	ND	2
Chlorobenzene	ND	100
cis-1,2-dichloroethene	ND	70
trans-1,2-dichloroethene	ND	100
1,2-Dichloropropane	ND	5
Ethylbenzene	ND	700
Styrene	ND	100
Tetrachloroethene	ND	5
Toluene	ND	1000
Xylenes(Total)	ND	10000
Methylene Chloride	ND	5
1,2,4-Trichlorobenzene	ND	70
1,1,2-Trichloroethane	ND	5

* Acetone Detection Limit = 10 ug/L
ND = < Method Detection Limit
NA = Not Analyzed
MRL = 0.5 ug/L
Dilution Factor = 1

Unregulated VOC's	Results (ug/L)
Acetone*	ND
Bromobenzene	ND
Bromochloromethane	ND
Bromodichloromethane	ND
Bromoform	ND
Bromomethane	ND
2-Butanone	ND
N-Butylbenzene	ND
Sec-Butylbenzene	ND
Tert-Butylbenzene	ND
Chloroethane	ND
Chloroform	ND
Chloromethane	ND
2-Chlorotoluene	ND
4-Chlorotoluene	ND
Dibromochloromethane	ND
1,2-Dibromo-3-Chloropropane	ND
1,2-Dibromoethane	ND
Dibromomethane	ND
1,3-Dichlorobenzene	ND
Dichlorodifluoromethane	ND
1,1-Dichloroethane	ND
1,3-Dichloropropane	ND
2,2-Dichloropropane	ND
1,1-Dichloropropene	ND
cis-1,3-Dichloropropene	ND
trans-1,3-Dichloropropene	ND
Hexachlorobutadiene	ND
Isopropylbenzene	ND
P-Isopropyltoluene	ND
Methyl-tert-butyl ether	ND
Naphthalene	ND
N-Propylbenzene	ND
1,1,1,2-Tetrachloroethane	ND
1,1,2,2-Tetrachloroethane	ND
1,2,3-Trichlorobenzene	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
1,2,4-Trimethylbenzene	ND
1,3,5-Trimethylbenzene	ND

Surrogate Standard Recoveries	%
Benzene-d6	95
4-Bromofluorobenzene	97
1,2-Dichlorobenzene-d4	102

MCL TTHM's = 80 ug/L
Method Detection Limit = 0.5 ug/L
Analysis performed per 310CMR42

Electronically signed and approved by Mr. Bruce A. Bornstein, Lab Director Date: 3/20/2023

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Client: Envirotech Laboratory, Inc.
State: Liquid

			Analytical Results									
Lab ID	**Client ID**	**Date Sampled**	**TOC mg/L**									
303216	WW-230309 Total	03/08/23	0.722									
303217	WW-230309 Dissolved	03/08/23	0.603									
303218	WW-230310 Total	03/08/23	0.706									
303219	WW-230310 Dissolved	03/08/23	0.619									
303220	WW-230311 Total	03/08/23	0.557									
303221	WW-230311 Dissolved	03/08/23	0.239									
303222	WW-230312 Total	03/08/23	0.411									
303223	WW-230312 Dissolved	03/08/23	0.307									
303224	WW-230313 Total	03/08/23	0.651									
303225	WW-230313 Dissolved	03/08/23	0.447									
303226	WW-230314 Total	03/08/23	1.64									
303227	WW-230314 Dissolved	03/08/23	1.52									
303228	WW-230315 Total	03/08/23	0.661									
303229	WW-230315 Dissolved	03/08/23	0.648									
303230	WW-230316 Total	03/08/23	0.349									
303231	WW-230316 Dissolved	03/08/23	0.204									
303232	WW-230317A Total	03/08/23	0.205									
303233	WW-230317A Dissolved	03/08/23	0.126									
303234	WW-230317B Dissolved	03/08/23	0.165									

Analytical Methodology							
Analyte	**Method**	**Detection Limit**	**MRL**	**Units**	**Date Analyzed**	**Cert Status**	DF
TOC	Standard Methods 5310C	0.0170	0.051	mg/L	03/16/23	NA	1

Form: Mis

Electronically signed and approved by: Bruce L. Bornstein Date: 03/16/23

Chain of Custody

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

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

WW-230309

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
3/8/23	0730	DW-1	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN,TOC, NH3	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE
3/8/23	0800	Bradford	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS, TP	NONE
			1	1 Liter Plastic	TKN, TN,TOC, MH3	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE

0310

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

PLEASE FILTER PHOSPHORUS IN LAB - THANK YOU!

Relinquished By: Date/Time

Received By: Date/Time: 3/8/23 1130

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
0311	3/8/23	0820	A13	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
				1	1 Liter Plastic	TKN, TN,TOC, NH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE
0312	3/8/23	0850	A17	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS, TP	NONE
				1	1 Liter Plastic	TKN, TN,TOC, MH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE

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

PLEASE FILTER PHOSPHORUS IN LAB - THANK YOU!

Relinquished By: Date/Time

Received By: Date/Time: 3/8/23 1130

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
0313	3/8/23	0910	2S	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
				1	1 Liter Plastic	TKN, TN,TOC, NH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE
0314	3/8/23	0920	2D	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS, TP	NONE
				1	1 Liter Plastic	TKN, TN,TOC, MH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE

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

PLEASE FILTER PHOSPHORUS IN LAB - THANK YOU!

Relinquished By: Date/Time

Received By: Date/Time: 3/8/23 1130

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
0315	3/8/23	0945	5S	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
				1	1 Liter Plastic	TKN, TN,TOC, NH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE
0316	3/8/23	1010	A15	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS, TP	NONE
				1	1 Liter Plastic	TKN, TN,TOC, MH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE

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

PLEASE FILTER PHOSPHORUS IN LAB - THANK YOU!

Relinquished By: Date/Time

Received By: Date/Time: 3/8/23 1130

Chain of Custody

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

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

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
0317 3/8/23	1040	7SE	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN,TOC, NH3	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE
			3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS, TP	NONE
			1	1 Liter Plastic	TKN, TN,TOC, MH3	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE

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

PLEASE FILTER PHOSPHORUS IN LAB - THANK YOU!

Relinquished By: Date/Time

Received By: Date/Time: 3/8/23 1130

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231527*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
Bradford A	08:00	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.12	0.01	08/24/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/24/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.33	NA	11/06/23	KB	Calculation
Total Dissolved Solids	mg/L	52	6.0	08/23/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	BRL	0.005	08/29/23	IP	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.22	0.017	09/06/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	*See Attached	*	08/29/23	NEC*	*
Total Iron	mg/L	4.48	0.050	09/21/23	KB	EPA 200.7
Boron	mg/L	BRL	0.010	09/21/23	KB	EPA 200.7
Copper	mg/L	0.007	0.003	09/21/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.037	0.02	09/01/23	RIA*	SM4500 NH3 C
Chloride	mg/L	14	3.0	08/24/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.21	0.10	08/29/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	09/05/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.034	0.005	08/29/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	08/29/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.378	0.017	09/06/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.16	NA	11/06/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.17	NA	11/06/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.005	0.005	08/22/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.84	NA	12/05/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

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

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231527*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
Bradford A	08:00	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.33	NA	11/06/23	KB	Calculation

*Trace to low levels of chloroform are occasionally detected in ground water in coastline areas.

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

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

BRL=below reportable limits

****see attached***

By: _____
Ronald J. Saari
Laboratory Director

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231528*
Date Received: *08/22/23*

Sample Type	***Sample Time***	***Sample Date***	***Comments***			
A13 A	08:20	08/22/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***
Nitrate-N	mg/L	0.13	0.01	08/23/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/23/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.55	NA	11/06/23	KB	Calculation
Total Dissolved Solids	mg/L	290	6.0	08/23/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.022	0.005	08/29/23	IP	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.837	0.017	09/06/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	*See Attached	*	08/29/23	NEC*	*
Total Iron	mg/L	5.35	0.050	09/21/23	KB	EPA 200.7
Boron	mg/L	0.021	0.010	09/21/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/21/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.16	0.02	09/01/23	RIA*	SM4500 NH3 C
Chloride	mg/L	170	3.0	08/24/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.42	0.10	08/29/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	09/05/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.066	0.005	08/29/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	08/28/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.062	0.017	09/06/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.29	NA	11/06/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.19	NA	11/06/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.018	0.005	08/22/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.78	NA	12/05/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231528*
Date Received: *08/22/23*

Sample Type	***Sample Time***	***Sample Date***	***Comments***			
A13 A	08:20	08/22/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***
Total Dissolved Nitrogen	mg/L	0.48	NA	11/06/23	KB	Calculation

*MTBE limit is 70 ug/L.

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

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

BRL=below reportable limits

****see attached***

By: _____
Ronald J. Saari
Laboratory Director

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231529*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
A17 A	08:45	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	3.0	0.01	08/23/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/23/23	KF	EPA 300.0
Total Nitrogen	mg/L	3.5	NA	11/06/23	KB	Calculation
Total Dissolved Solids	mg/L	1400	6.0	08/23/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.017	0.005	08/29/23	IP	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.436	0.017	09/06/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	*See Attached	*	08/29/23	NEC*	*
Total Iron	mg/L	0.429	0.050	09/21/23	KB	EPA 200.7
Boron	mg/L	0.177	0.010	09/21/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/21/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	09/01/23	RIA*	SM4500 NH3 C
Chloride	mg/L	710	3.0	12/11/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.49	0.10	08/29/23	IP	SM4500 Norg B-C
Mercury*	mg/L	0.00027	0.0002	09/05/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.058	0.005	08/29/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.42	0.20	08/29/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	BRL	0.017	09/06/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	3.0	NA	11/06/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.42	NA	11/06/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.012	0.005	08/22/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.44	NA	12/05/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

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

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231529*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
A17 A	08:45	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	3.4	NA	11/06/23	KB	Calculation

*Trace to low levels of chloroform are occasionally detected in ground water in coastline areas.
Chloroform and three other trihalomethanes (THMs)— bromodichloromethane, dibromochloromethane, and bromoform—are disinfection by-products

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

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

BRL=below reportable limits

****see attached***

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

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231530*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
2D A	09:00	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.15	0.01	08/23/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/23/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.43	NA	11/06/23	KB	Calculation
Total Dissolved Solids	mg/L	150	6.0	08/23/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.008	0.005	09/07/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.54	0.017	09/06/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	*See Attached	*	08/29/23	NEC*	*
Total Iron	mg/L	1.91	0.050	09/21/23	KB	EPA 200.7
Boron	mg/L	BRL	0.010	09/21/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/21/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	09/01/23	RIA*	SM4500 NH3 C
Chloride	mg/L	73	3.0	08/24/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.28	0.10	08/29/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	09/05/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.060	0.005	09/07/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	08/29/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.572	0.017	09/06/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.15	NA	11/06/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	11/06/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	08/22/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.97	NA	12/05/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231530*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
2D A	09:00	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.36	NA	11/06/23	KB	Calculation

*Tetrachloroethlylene (PCE) limit is 5 ug/L, source may be discharge from factories and dry cleaners

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

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

BRL=below reportable limits

****see attached***

By: _____
Ronald J. Saari
Laboratory Director

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231531*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
2S A	09:15	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	1.8	0.01	08/23/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/23/23	KF	EPA 300.0
Total Nitrogen	mg/L	2.4	NA	11/06/23	KB	Calculation
Total Dissolved Solids	mg/L	310	6.0	08/23/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.008	0.005	09/07/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.596	0.017	09/06/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	*See Attached	*	08/29/23	NEC*	*
Total Iron	mg/L	0.700	0.050	09/21/23	KB	EPA 200.7
Boron	mg/L	BRL	0.010	09/21/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/21/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.050	0.02	09/01/23	RIA*	SM4500 NH3 C
Chloride	mg/L	170	3.0	08/24/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.63	0.10	08/29/23	IP	SM4500 Norg B-C
Mercury*	mg/L	<0.00020	0.0002	09/05/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.020	0.005	09/07/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.56	0.20	08/29/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.033	0.017	09/06/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	1.9	NA	11/06/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.51	NA	11/06/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	08/22/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.56	NA	12/05/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231531*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
2S A	09:15	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	2.36	NA	11/06/23	KB	Calculation

*Tetrachloroethlylene (PCE) limit is 5 ug/L, source may be discharge from factories and dry cleaners

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231532*
Date Received: *08/22/23*

Comments: Total phos originally tested 09/07/23 retested 09/11/23

Sample Type	*Sample Time*	*Sample Date*	*Comments*			
A19 A	09:40	08/22/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***
Nitrate-N	mg/L	0.64	0.01	08/23/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/23/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.85	NA	11/06/23	KB	Calculation
Total Dissolved Solids	mg/L	52	6.0	08/23/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.035	0.005	09/11/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.10	0.017	09/06/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	*None Detected	*	08/29/23	NEC*	*
Total Iron	mg/L	0.412	0.050	09/21/23	KB	EPA 200.7
Boron	mg/L	BRL	0.010	09/21/23	KB	EPA 200.7
Copper	mg/L	0.011	0.003	09/21/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.026	0.02	09/01/23	RIA*	SM4500 NH3 C
Chloride	mg/L	18	3.0	08/24/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.21	0.10	08/29/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	09/05/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.022	0.005	09/11/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	08/29/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	3.63	0.017	09/06/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.67	NA	11/06/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.17	NA	11/06/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.005	0.005	08/22/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	ND	NA	12/05/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.21	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231532*
Date Received: *08/22/23*

Comments: Total phos originally tested 09/07/23 retested 09/11/23

Sample Type	Sample Time	Sample Date	Comments			
A19 A	09:40	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.64	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Tuesday, December 12, 2023

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

ProjectName: Groundwater Eel River
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-231533
Date Received: 08/22/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
5S A	10:10	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.65	0.01	08/23/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/23/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.93	NA	11/06/23	KB	Calculation
Total Dissolved Solids	mg/L	1100	6.0	08/23/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.023	0.005	09/07/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.843	0.017	09/06/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	*See Attached	*	08/29/23	NEC*	*
Total Iron	mg/L	0.898	0.050	09/21/23	KB	EPA 200.7
Boron	mg/L	0.019	0.010	09/21/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/21/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	09/01/23	RIA*	SM4500 NH3 C
Chloride	mg/L	120	3.0	08/24/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.28	0.10	08/30/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	09/05/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.112	0.005	09/07/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	08/30/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	BRL	0.017	09/06/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.65	NA	11/06/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	11/06/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.010	0.005	08/22/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.84	NA	12/05/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

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

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

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

Tuesday, December 12, 2023

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

ProjectName: Groundwater Eel River
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-231533
Date Received: 08/22/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
5S A	10:10	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.86	NA	11/06/23	KB	Calculation

*Trace to low levels of chloroform are occasionally detected in ground water in coastline areas.
Chloroform and three other trihalomethanes (THMs)— bromodichloromethane, dibromochloromethane, and bromoform—are disinfection by-products

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

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

BRL=below reportable limits

**see attached*

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

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231534*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
A15 A	10:45	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	1.6	0.01	08/23/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/23/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.8	NA	11/06/23	KB	Calculation
Total Dissolved Solids	mg/L	130	6.0	08/23/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.042	0.005	09/07/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.688	0.017	09/06/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	None Detected	*	08/29/23	NEC*	*
Total Iron	mg/L	6.39	0.050	09/21/23	KB	EPA 200.7
Boron	mg/L	0.018	0.010	09/21/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/21/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	09/01/23	RIA*	SM4500 NH3 C
Chloride	mg/L	42	3.0	08/24/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.21	0.10	08/30/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	09/05/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.102	0.005	09/07/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	08/30/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.092	0.017	09/06/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.21	NA	11/06/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	11/06/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.038	0.005	08/22/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.60	NA	12/05/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.21	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231534*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
A15 A	10:45	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	1.6	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

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

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231535*
Date Received: *08/22/23*

Sample Type	Sample Time	Sample Date	Comments			
7SR A	11:10	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.41	0.01	08/23/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/23/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.62	NA	11/06/23	KB	Calculation
Total Dissolved Solids	mg/L	820	6.0	08/23/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	BRL	0.005	09/07/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.340	0.017	09/06/23	NEC*	SM 5310 C
Volatile Organic Compounds*	ug/L	None Detected	*	08/29/23	NEC*	*
Total Iron	mg/L	6.97	0.050	09/21/23	KB	EPA 200.7
Boron	mg/L	0.014	0.010	09/21/23	KB	EPA 200.7
Copper	mg/L	BRL	0.003	09/21/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	09/01/23	RIA*	SM4500 NH3 C
Chloride	mg/L	500	3.0	12/11/23	KF	EPA 300.0
Kjeldhal Nitrogen	mg/L	0.21	0.10	09/07/23	IP	SM4500 Norg B-C
Mercury*	mg/L	BRL	0.0002	09/05/23	RIA*	EPA 245.1
Total Phosphorous (P)	mg/L	0.020	0.005	09/07/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	09/07/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	BRL	0.017	09/06/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.41	NA	11/06/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	11/06/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	08/22/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.34	NA	12/05/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.21	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Monday, December 11, 2023

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

ProjectName: *Groundwater Eel River*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231535*
Date Received: *08/22/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
7SR A	11:10	08/22/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Dissolved Nitrogen	mg/L	0.41	NA	11/06/23	KB	Calculation

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

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

BRL=below reportable limits

**see attached*

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

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Client: Envirotech Laboratory, Inc.
State: Liquid

			Analytical Results									
Lab ID	**Client ID**	**Date Sampled**	**TOC mg/L**									
309012	WW-231527 Total	08/22/23	1.22									
309013	WW-231527 Dissolved	08/22/23	0.946									
309014	WW-231528 Total	08/22/23	0.837									
309015	WW-231528 Dissolved	08/22/23	0.630									
309016	WW-231529 Total	08/22/23	0.436									
309017	WW-231529 Dissolved	08/22/23	0.397									
309018	WW-231530 Total	08/22/23	1.54									
309019	WW-231530 Dissolved	08/22/23	1.14									
309020	WW-231531 Total	08/22/23	0.596									
309021	WW-231531 Dissolved	08/22/23	0.601									
309022	WW-231532 Total	08/22/23	1.10									
309023	WW-231532 Dissolved	08/22/23	4.20									
309024	WW-231533 Total	08/22/23	0.843									
309025	WW-231533 Dissolved	08/22/23	0.384									
309026	WW-231534 Total	08/22/23	0.688									
309027	WW-231534 Dissolved	08/22/23	0.660									
309028	WW-231535A Total	08/22/23	0.340									
309029	WW-231535A Dissolved	08/22/23	0.323									
309030	WW-231535B Dissolved	08/22/23	0.568									

Analytical Methodology							
Analyte	**Method**	**Detection Limit**	**MRL**	**Units**	**Date Analyzed**	**Cert Status**	DF
TOC	Standard Methods 5310C	0.0170	0.051	mg/L	09/06/23	NA	1

Form: Mis

Electronically signed and approved by: Brian L. Bornstein Date: 09/08/23

54012-35030

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth ENV.
Sampler:	KT

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

NE Chromachem
Address 6 Nichols Street
Salem, MA 01970
Phone# 978-744-6600
Fax# 206 984 2474

Lab ID #	Date	Time	Com	Grab	Station location	DEP ID	Container	Pres.	Sample type	Analysis requested	
WW-231527	08/22/23	0800		X	Bradford		2VOA	H2SO4	GW	Total TOC low	30012
							2VOA	H2SO4	GW	Dissolved TOC low	30013
WW-231528	08/22/23	0820		X	A13		2VOA	H2SO4	GW	Total TOC low	30014
							2VOA	H2SO4	GW	Dissolved TOC low	30015
WW-231529	08/22/23	0845		X	A17		2VOA	H2SO4	GW	Total TOC low	30016
							2VOA	H2SO4	GW	Dissolved TOC low	30017
WW-231530	08/22/23	0910		X	2D		2VOA	H2SO4	GW	Total TOC low	30018
							2VOA	H2SO4	GW	Dissolved TOC low	30019
WW-231531	08/22/23	0915		X	2S		2VOA	H2SO4	GW	Total TOC low	30020
							2VOA	H2SO4	GW	Dissolved TOC low	30021
WW-231532	08/22/23	0940		X	A19		2VOA	H2SO4	GW	Total TOC low	30022
							2VOA	H2SO4	GW	Dissolved TOC low	30023
WW-231533	08/22/23	1010		X	5S		2VOA	H2SO4	GW	Total TOC low	30024
							2VOA	H2SO4	GW	Dissolved TOC low	30025
WW-231534	08/22/23	1045		X	A15		2VOA	H2SO4	GW	Total TOC low	30026
							2VOA	H2SO4	GW	Dissolved TOC low	30027
WW-231535A	08/22/23	1110		X	7SR		2VOA	H2SO4	GW	Total TOC low	30028
							2VOA	H2SO4	GW	Dissolved TOC low	30029
WW-231535B	08/22/23	1600		X	Filtered Blank		1VOA	H2SO4	GW	Dissolved TOC low	30030

Relinquished:	Date/Time	Received:	Total TOC low level 0.5 mg/L
	8/30/23	UPS	dissolved TOC low level 0.5 mg/L
Relinquished:	Date/Time	Received:	DEP MDL REQUIRED by Method
	08/01/23		Contact lab with any Exceeded MCL

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

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

Date Received: 8/28/2023
Date Reported: 9/6/2023
P.O. Number WW-231527-35

Work Order #: 2308-14545

Project Name: PLYMOUTH ENV.

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

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

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

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

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

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MPN	Most Probable Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2308-14545
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-231527 BRADFORD
Sample Type : GRAB
Sample Date / Time : 8/22/2023 @ 08:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.037	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/1/2023	9:21	VC
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	9/5/2023	16:10	KK
Mercury Digestion				EPA 245.1	8/29/2023	9:57	KK

Sample Number: 002
Sample Description: WW-231528 A13
Sample Type : GRAB
Sample Date / Time : 8/22/2023 @ 08:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.16	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/1/2023	9:21	VC
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	9/5/2023	16:15	KK
Mercury Digestion				EPA 245.1	8/29/2023	9:57	KK

Sample Number: 003
Sample Description: WW-231529 A17
Sample Type : GRAB
Sample Date / Time : 8/22/2023 @ 08:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/1/2023	9:21	VC
Total Metals							
Mercury	0.00027	0.00020	mg/L	EPA 245.1	9/5/2023	16:16	KK
Mercury Digestion				EPA 245.1	8/29/2023	9:57	KK

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2308-14545
Project Name: PLYMOUTH ENV.

Sample Number: 004
Sample Description: WW-231530 2D
Sample Type : GRAB
Sample Date / Time : 8/22/2023 @ 09:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/1/2023	9:21	VC
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	9/5/2023	16:17	KK
Mercury Digestion				EPA 245.1	8/29/2023	9:57	KK

Sample Number: 005
Sample Description: WW-231531 2S
Sample Type : GRAB
Sample Date / Time : 8/22/2023 @ 09:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.050	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/1/2023	9:21	VC
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	9/5/2023	16:18	KK
Mercury Digestion				EPA 245.1	8/29/2023	9:57	KK

Sample Number: 006
Sample Description: WW-231532 A19
Sample Type : GRAB
Sample Date / Time : 8/22/2023 @ 09:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.026	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/1/2023	9:21	VC
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	9/5/2023	16:21	KK
Mercury Digestion				EPA 245.1	8/29/2023	9:57	KK

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2308-14545
Project Name: PLYMOUTH ENV.

Sample Number: 007
Sample Description: WW-231533 5S
Sample Type : GRAB
Sample Date / Time : 8/22/2023 @ 10:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/1/2023	9:21	VC
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	9/5/2023	16:23	KK
Mercury Digestion				EPA 245.1	8/29/2023	9:57	KK

Sample Number: 008
Sample Description: WW-231534 A15
Sample Type : GRAB
Sample Date / Time : 8/22/2023 @ 10:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/1/2023	9:21	VC
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	9/5/2023	16:24	KK
Mercury Digestion				EPA 245.1	8/29/2023	9:57	KK

Sample Number: 009
Sample Description: WW-231535 7SR
Sample Type : GRAB
Sample Date / Time : 8/22/2023 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/1/2023	9:21	VC
Total Metals							
Mercury	<0.00020	0.00020	mg/L	EPA 245.1	9/5/2023	16:25	KK
Mercury Digestion				EPA 245.1	8/29/2023	9:57	KK

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth Env.
Sampler:	KT

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

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

Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested
WW-231527	08/22/23	0800		X	Bradford	P	HNO_3	Groundwater	Mercury
						P	H2SO4	Groundwater	Ammonia (low)
WW-231528	08/22/23	0820		X	A13	P	HNO_3	Groundwater	Mercury
						P	H2SO4	Groundwater	Ammonia (low)
WW-231529	08/22/23	0845		X	A17	P	HNO_3	Groundwater	Mercury
						P	H2SO4	Groundwater	Ammonia (low)
WW-231530	08/22/23	0910		X	2D	P	HNO_3	Groundwater	Mercury
						P	H2SO4	Groundwater	Ammonia (low)
WW-231531	08/22/23	0915		X	2S	P	HNO_3	Groundwater	Mercury
						P	H2SO4	Groundwater	Ammonia (low)
WW-231532	08/22/23	0940		X	A19	P	HNO_3	Groundwater	Mercury
						P	H2SO4	Groundwater	Ammonia (low)
WW-231533	08/22/23	1010		X	5S	P	HNO_3	Groundwater	Mercury
						P	H2SO4	Groundwater	Ammonia (low)
WW-231534	08/22/23	1045		X	A15	P	HNO_3	Groundwater	Mercury
						P	H2SO4	Groundwater	Ammonia (low)
WW-231535	08/22/23	1110		X	7SR	P	HNO_3	Groundwater	Mercury
						P	H2SO4	Groundwater	Ammonia (low)
									2308-14545

Relinquished:	Date/Time 08/28/23 1410	Received: 8/28/23 1410	
Relinquished:	Date/Time 8/28/23 1645	Received: 8/28/23 1645	Contact lab with any exceeded MCL

3.3°C

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	308535
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-231527
State:	Liquid
Date Sampled:	08/22/23
Date Received:	08/29/23
Date Analyzed:	08/29/23

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	1,1-Dichloroethene	ND
Acrolein	ND	cis-1,2-dichloroethene	ND
Acrylonitrile	ND	trans-1,2-dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-dichloropropene	ND
Bromoform	ND	trans-1,3-dichloropropene	ND
Bromomethane	ND	Ethylbenzene	ND
2-Butanone	ND	2-Hexanone	ND
Carbon Disulfide	ND	Methylene Chloride	ND
Carbon Tetrachloride	ND	4-Methyl-2-pentanone	ND
Chlorobenzene	ND	Methyl-tert-butyl ether	ND
Chloroethane	ND	Styrene	ND
2-Chloroethylvinyl Ether	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	1.03	Tetrachloroethene	ND
Chloromethane	ND	Toluene	ND
Dibromochloromethane	ND	1,1,1-Trichloroethane	ND
Dibromomethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND

Surrogate Standard Recoveries

Benzene-d6	96
4-Bromofluorobenzene	98
1,2-Dichlorobenzene-d4	110

ND = < Method Detection Limit
NA = Not Analyzed
Dilution Factor = 1
Method Detection Limit = 1 ug/L
MRL= 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42
MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director — 8/30/2023 Date

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	308536
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-231528
State:	Liquid
Date Sampled:	08/22/23
Date Received:	08/29/23
Date Analyzed:	08/29/23

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	1,1-Dichloroethene	ND
Acrolein	ND	cis-1,2-dichloroethene	ND
Acrylonitrile	ND	trans-1,2-dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-dichloropropene	ND
Bromoform	ND	trans-1,3-dichloropropene	ND
Bromomethane	ND	Ethylbenzene	ND
2-Butanone	ND	2-Hexanone	ND
Carbon Disulfide	ND	Methylene Chloride	ND
Carbon Tetrachloride	ND	4-Methyl-2-pentanone	ND
Chlorobenzene	ND	Methyl-tert-butyl ether	1.93
Chloroethane	ND	Styrene	ND
2-Chloroethylvinyl Ether	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	ND	Tetrachloroethene	ND
Chloromethane	ND	Toluene	ND
Dibromochloromethane	ND	1,1,1-Trichloroethane	ND
Dibromomethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND

Surrogate Standard Recoveries

Benzene-d6	94
4-Bromofluorobenzene	99
1,2-Dichlorobenzene-d4	108

ND = < Method Detection Limit
NA = Not Analyzed
Dilution Factor = 1
Method Detection Limit = 1 ug/L
MRL= 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42
MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director — 8/30/2023 Date

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	308537
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-231529
State:	Liquid
Date Sampled:	08/22/23
Date Received:	08/29/23
Date Analyzed:	08/29/23

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	1,1-Dichloroethene	ND
Acrolein	ND	cis-1,2-dichloroethene	ND
Acrylonitrile	ND	trans-1,2-dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	4.44	cis-1,3-dichloropropene	ND
Bromoform	3.13	trans-1,3-dichloropropene	ND
Bromomethane	ND	Ethylbenzene	ND
2-Butanone	ND	2-Hexanone	ND
Carbon Disulfide	ND	Methylene Chloride	ND
Carbon Tetrachloride	ND	4-Methyl-2-pentanone	ND
Chlorobenzene	ND	Methyl-tert-butyl ether	ND
Chloroethane	ND	Styrene	ND
2-Chloroethylvinyl Ether	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	7.13	Tetrachloroethene	ND
Chloromethane	ND	Toluene	ND
Dibromochloromethane	7.05	1,1,1-Trichloroethane	ND
Dibromomethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND

Surrogate Standard Recoveries

Benzene-d6	94
4-Bromofluorobenzene	98
1,2-Dichlorobenzene-d4	109

ND = < Method Detection Limit
NA = Not Analyzed
Dilution Factor = 1
Method Detection Limit = 1 ug/L
MRL= 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42
MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director	8/30/2023 Date

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	308538
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-231530
State:	Liquid
Date Sampled:	08/22/23
Date Received:	08/29/23
Date Analyzed:	08/29/23

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	1,1-Dichloroethene	ND
Acrolein	ND	cis-1,2-dichloroethene	ND
Acrylonitrile	ND	trans-1,2-dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-dichloropropene	ND
Bromoform	ND	trans-1,3-dichloropropene	ND
Bromomethane	ND	Ethylbenzene	ND
2-Butanone	ND	2-Hexanone	ND
Carbon Disulfide	ND	Methylene Chloride	ND
Carbon Tetrachloride	ND	4-Methyl-2-pentanone	ND
Chlorobenzene	ND	Methyl-tert-butyl ether	ND
Chloroethane	ND	Styrene	ND
2-Chloroethylvinyl Ether	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	ND	Tetrachloroethene	2.46
Chloromethane	ND	Toluene	ND
Dibromochloromethane	ND	1,1,1-Trichloroethane	ND
Dibromomethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND

Surrogate Standard Recoveries

Benzene-d6	94
4-Bromofluorobenzene	104
1,2-Dichlorobenzene-d4	103

ND = < Method Detection Limit
NA = Not Analyzed
Dilution Factor = 1
Method Detection Limit = 1 ug/L
MRL= 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42
MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director	8/30/2023 Date

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	308539
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-231531
State:	Liquid
Date Sampled:	08/22/23
Date Received:	08/29/23
Date Analyzed:	08/29/23

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	1,1-Dichloroethene	ND
Acrolein	ND	cis-1,2-dichloroethene	ND
Acrylonitrile	ND	trans-1,2-dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	ND	cis-1,3-dichloropropene	ND
Bromoform	ND	trans-1,3-dichloropropene	ND
Bromomethane	ND	Ethylbenzene	ND
2-Butanone	ND	2-Hexanone	ND
Carbon Disulfide	ND	Methylene Chloride	ND
Carbon Tetrachloride	ND	4-Methyl-2-pentanone	ND
Chlorobenzene	ND	Methyl-tert-butyl ether	ND
Chloroethane	ND	Styrene	ND
2-Chloroethylvinyl Ether	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	ND	Tetrachloroethene	1.12
Chloromethane	ND	Toluene	ND
Dibromochloromethane	ND	1,1,1-Trichloroethane	ND
Dibromomethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND

Surrogate Standard Recoveries

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

ND = < Method Detection Limit
NA = Not Analyzed
Dilution Factor = 1
Method Detection Limit = 1 ug/L
MRL= 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42
MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director	8/30/2023 Date

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	308540
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-231532
State:	Liquid
Date Sampled:	08/22/23
Date Received:	08/29/23
Date Analyzed:	08/29/23

Analytical Results

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

Surrogate Standard Recoveries

Benzene-d6	97
4-Bromofluorobenzene	93
1,2-Dichlorobenzene-d4	106

ND = < Method Detection Limit
NA = Not Analyzed
Dilution Factor = 5
Method Detection Limit = 2.5 ug/L
MRL= 1 ug/L

*Acetone Method Detection Limit = 25 ug/L

Analysis performed per 310CMR42
MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director	8/30/2023 Date

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	308541
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-231533
State:	Liquid
Date Sampled:	08/22/23
Date Received:	08/29/23
Date Analyzed:	08/29/23

Analytical Results

Parameter	Results (ug/L)	Parameter	Results (ug/L)
Acetone*	ND	1,1-Dichloroethene	ND
Acrolein	ND	cis-1,2-dichloroethene	ND
Acrylonitrile	ND	trans-1,2-dichloroethene	ND
Benzene	ND	1,2-Dichloropropane	ND
Bromodichloromethane	1.43	cis-1,3-dichloropropene	ND
Bromoform	ND	trans-1,3-dichloropropene	ND
Bromomethane	ND	Ethylbenzene	ND
2-Butanone	ND	2-Hexanone	ND
Carbon Disulfide	ND	Methylene Chloride	ND
Carbon Tetrachloride	ND	4-Methyl-2-pentanone	ND
Chlorobenzene	ND	Methyl-tert-butyl ether	ND
Chloroethane	ND	Styrene	ND
2-Chloroethylvinyl Ether	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	3.12	Tetrachloroethene	ND
Chloromethane	ND	Toluene	ND
Dibromochloromethane	2.18	1,1,1-Trichloroethane	ND
Dibromomethane	ND	1,1,2-Trichloroethane	ND
1,2-Dichlorobenzene	ND	Trichloroethene	ND
1,3-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,4-Dichlorobenzene	ND	Vinyl Chloride	ND
1,1-Dichloroethane	ND	Vinyl Acetate	ND
1,2-Dichloroethane	ND	Total Xylenes	ND

Surrogate Standard Recoveries

Benzene-d6	95
4-Bromofluorobenzene	100
1,2-Dichlorobenzene-d4	101

ND = < Method Detection Limit
NA = Not Analyzed
Dilution Factor = 1
Method Detection Limit = 1 ug/L
MRL= 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42
MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director — 8/30/2023 Date

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	308542
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-231534
State:	Liquid
Date Sampled:	08/22/23
Date Received:	08/29/23
Date Analyzed:	08/29/23

Analytical Results

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

Surrogate Standard Recoveries

Benzene-d6	97
4-Bromofluorobenzene	102
1,2-Dichlorobenzene-d4	110

ND = < Method Detection Limit
NA = Not Analyzed
Dilution Factor = 1
Method Detection Limit = 1 ug/L
MRL= 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42
MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director — 8/30/2023 Date

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Sample Information

EPA Method 624.1 Volatile Organic Compounds	
Lab ID:	308543
Client:	Envirotech Laboratory, Inc.
Client ID:	WW-231535
State:	Liquid
Date Sampled:	08/22/23
Date Received:	08/29/23
Date Analyzed:	08/29/23

Analytical Results

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

Surrogate Standard Recoveries

Benzene-d6	97
4-Bromofluorobenzene	97
1,2-Dichlorobenzene-d4	102

ND = < Method Detection Limit
NA = Not Analyzed
Dilution Factor = 1
Method Detection Limit = 1 ug/L
MRL= 1 ug/L

*Acetone Method Detection Limit = 10 ug/L

Analysis performed per 310CMR42
MA DEP Lab. M-MA072 RI Lab. LAO00364

Electronically signed and approved by: Mr. Bruce A. Bornstein, Lab Director — 8/30/2023 Date

308535 - 308543

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth Env.
Sampler:	Kim Tower

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

NE Chromachem
Address 6 Nichols Street
Salem, MA 01970
Phone# 978-744-6600
Fax# 206 984 2474

Lab ID #	Date	Time	Com	Grab	Station location	DEP ID	Container	Pres.	Sample type	Analysis requested	
WW-231527	08/22/23	0800		X	Bradford		3VOA	HCl	GW	VOC	308535
WW-231528	08/22/23	0820		X	A13		3VOA	HCl	GW	VOC	308536
WW-231529	08/22/23	0845		X	A17		3VOA	HCl	GW	VOC	308537
WW-231530	08/22/23	0910		X	2D		3VOA	HCl	GW	VOC	308538
WW-231531	08/22/23	0915		X	2S		3VOA	HCl	GW	VOC	308539
WW-231532	08/22/23	0940		X	A19		3VOA	HCl	GW	VOC	308540
WW-231533	08/22/23	1010		X	5s		3VOA	HCl	GW	VOC	308541
WW-231534	08/22/23	1045		X	A25		3VOA	HCl	GW	VOC	308542
WW-231535	08/22/23	1110		X	7SR		3VOA	HCl	GW	VOC	308543

Total TOC low level 0.5 mg/L
dissolved TOC low level 0.5 mg/L

PWS Class: com

Relinquished:	Date/Time 08/23/23 1630	Received: LAPS
Relinquished:	Date/Time 08/29/23 10:15	Received:

DEP MDL REQUIRED by Method
Contact lab with any Exceeded MCL

c

Chain of Custody

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

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

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
VW-231527 08/22	0800	Bradford	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN,TOC, NH3	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE
1528 8/22	0820	A13	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS, TP	NONE
			1	1 Liter Plastic	TKN, TN,TOC, MH3	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE

SCANNED DEC 13 2023

RE-

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

PLEASE FILTER PHOSPHORUS IN LAB - THANK YOU!

Relinquished By: Date/Time

Received By: Date/Time: 08/22/23 1145

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
1529	8/22	0845	A17	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
				1	1 Liter Plastic	TKN, TN,TOC, NH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE
1530	8/22	0910	2D	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS, TP	NONE
				1	1 Liter Plastic	TKN, TN,TOC, MH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE

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

PLEASE FILTER PHOSPHORUS IN LAB - THANK YOU!

Relinquished By: Date/Time

Received By: Date/Time: 08/22/23 1145

c

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
1531	8/22	0915	2S	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
				1	1 Liter Plastic	TKN, TN,TOC, NH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE
1532	8/22	0940	A19	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS, TP	NONE
				1	1 Liter Plastic	TKN, TN,TOC, MH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE

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

PLEASE FILTER PHOSPHORUS IN LAB - THANK YOU!

Relinquished By: Date/Time

Received By: Date/Time: 08/22/23 1145

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
1533	8/22	1010	5S	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
				1	1 Liter Plastic	TKN, TN,TOC, NH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE
1534	8/22	1045	A25	3	Glass Vial	VOC	HCL
				1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS, TP	NONE
				1	1 Liter Plastic	TKN, TN,TOC, MH3	NONE
				1	250ml Plastic	Chloride, No2, NO3	NONE
				1	500ml Plastic	B, Cu, Hg, Fe	NONE
				1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE

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

PLEASE FILTER PHOSPHORUS IN LAB - THANK YOU!

Relinquished By: Date/Time

Received By: Date/Time: 08/22/23 1145

C

Chain of Custody

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

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

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
1535 8/22	1110	75R	3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS	NONE
			1	1 Liter Plastic	TKN, TN,TOC, NH3	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE
			3	Glass Vial	VOC	HCL
			1	1 Liter Plastic	Dissolved, TKN, TOC diss low, TDS, TP	NONE
			1	1 Liter Plastic	TKN, TN,TOC, MH3	NONE
			1	250ml Plastic	Chloride, No2, NO3	NONE
			1	500ml Plastic	B, Cu, Hg, Fe	NONE
			1	Plastic	Extra - Total Phosphorus and Ortho-phosphate **PLEASE FILTER TP AT LAB**	NONE

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

PLEASE FILTER PHOSPHORUS IN LAB - THANK YOU!

Relinquished By: Date/Time

Received By: Date/Time: 08/22/23 1145

Plymouth Environmental E-F

Calculations 0=<0.

Lab ID	Date	TKN <0.2	Dissolve TKN	NH3 <0.02	NO3 <0.01	NO2 <0.006	Total Nitrogen	T Diss Nitrogen	Diss Inorg Nitrogen	Diss Org Nitrogen	Particulate Org Nitrogen
WW-231527	8/22/2023	0.21	0.21	0.037	0.12	<0.006	0.330	0.33	0.16	0.17	0.00
WW-231528	8/22/2023	0.42	0.35	0.160	0.13	<0.006	0.550	0.48	0.29	0.19	0.07
WW-231529	8/22/2023	0.49	0.42	<0.02	3	<0.006	3.490	3.42	3.00	<0.42	0.07
WW-231530	8/22/2023	0.28	0.21	<0.02	0.15	<0.006	0.430	0.36	0.15	<0.21	0.07
WW-231531	8/22/2023	0.63	0.56	0.05	1.8	<0.006	2.430	2.36	1.85	0.51	0.07
WW-231532	8/22/2023	0.21	<0.20	0.03	0.64	<0.006	0.850	0.64	0.67	<0.17	<0.21
WW-231533	8/22/2023	0.28	0.21	<0.02	0.65	<0.006	0.930	0.86	0.65	<0.21	0.07
WW-231534	8/22/2023	0.21	<0.2	<0.02	1.6	<0.006	1.810	1.60	1.60	<0.2	<0.21
WW-231535	8/22/2023	0.21	<0.2	<0.02	0.41	<0.006	0.620	0.41	0.41	<0.2	<0.21
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
Formulae							0.000	0.00	0.00	0.00	0.00

Dissolved Inorganic Nitrogen	NH3 + NO2 + NO3
Dissolved Organic Nitrogen	TKN Diss - NH3
Particulate Organic Carbon	TOC - DOC
Particulate Organic Nitrogen	(TKN - Ammonia-N) - (TKN Dissolved - Ammonia-N)

2

Total Phos	Diss Total P	Ortho Phos	POC 0=<0.017	TOC <0.017	D TOC <0.017
0.034	<0.005	0.005	0.842	1.220	0.378
0.066	0.022	0.018	0.775	0.837	0.062
0.058	0.017	0.012	0.436	0.436	<0.017
0.060	0.008	<0.005	0.968	1.540	0.572
0.020	0.008	<0.005	0.563	0.596	0.033
0.022	0.035	0.005	ND	1.100	3.630
0.112	0.023	0.010	0.843	0.843	<0.017
0.102	0.042	0.038	0.596	0.688	0.092
0.020	<0.005	<0.005	0.020	0.340	<0.017
			0.000		
			0.000		
			0.000		
			0.000		
			0.000		
			0.000		
			0.000		
			0.000		
			0.000		
			0.000		
			0.000		

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

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

Wednesday, July 5, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230435*
Date Received: *03/29/23*

Sample Type	***Sample Time***	***Sample Date***	***Comments***			
S-5B A	08:50	03/29/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***
Nitrate-N	mg/L	0.53	0.01	03/29/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/29/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.88	NA	04/13/23	IP	Calculation
Total Dissolved Solids	mg/L	110	6.0	04/04/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.026	0.005	04/06/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.22	0.017	03/29/23	NEC*	SM 5310 C
Boron	mg/L	0.012	0.010	04/08/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.35	0.2	04/11/23	IP	SM4500-Norg B-C
Chloride	mg/L	51	3.0	03/29/23	KF	EPA 300.0
Ortho Phosphorous (P)	mg/L	BRL	0.005	03/29/23	IP	SM 4500-P
Total Phosphorous (P)	mg/L	0.024	0.005	04/06/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	04/11/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.24	0.017	03/29/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.53	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.28	NA	07/05/23	KB	Calculation
Particulate Organic Carbon	mg/L	BRL	NA	04/07/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	04/13/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.81	NA	04/13/23	IP	Calculation
E coli	CFU/100ml	5	5	03/29/23	WM @ 13:30	EPA 1603
Ammonia-N	mg/L	<0.020	0.2	04/10/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

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

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

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

Wednesday, July 5, 2023

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

ProjectName:	*Eel River SW Sampling*	***Comments:***
Project Number:		
Sampled By:	*Kim Tower*	
Lab Order Number:	*WW-230435*	
Date Received:	*03/29/23*	

Sample Type	***Sample Time***	***Sample Date***	***Comments***			
S-5B A	08:50	03/29/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Friday, July 7, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230436*
Date Received: *03/29/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	09:10	03/29/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.44	0.01	03/29/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/29/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.4	NA	04/13/23	IP	Calculation
Total Dissolved Solids	mg/L	130	6.0	04/04/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.014	0.005	04/06/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	2.56	0.017	03/29/23	NEC*	SM 5310 C
Boron	mg/L	0.011	0.010	04/08/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.91	0.2	04/11/23	IP	SM4500-Norg B-C
Chloride	mg/L	57	3.0	03/29/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.129	0.005	04/06/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	04/11/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.14	0.017	03/29/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.44	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.35	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	03/29/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.420	NA	04/07/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.56	NA	04/13/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.79	NA	04/13/23	IP	Calculation
E coli	CFU/100mL	10	<1	03/29/23	KF	EPA 1603
Ammonia-N	mg/L	<0.020	0.2	04/10/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

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

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230436
Date Received: 03/29/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	09:10	03/29/23				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

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

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

BRL=below reportable limits

**see attached*

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

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230437
Date Received: 03/29/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	09:10	03/29/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.45	0.01	03/29/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/29/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.80	NA	04/13/23	IP	Calculation
Total Dissolved Solids	mg/L	120	6.0	04/04/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.010	0.005	04/06/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	2.16	0.017	03/29/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	04/08/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.35	0.2	04/11/23	IP	SM4500-Norg B-C
Chloride	mg/L	56	3.0	03/29/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.026	0.005	04/11/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	04/11/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.23	0.017	03/29/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.45	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.21	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	03/29/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	04/07/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	04/13/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.66	NA	04/13/23	IP	Calculation
E coli	CFU/100mL	20	<1	03/29/23	KF	EPA 1603
Ammonia-N	mg/L	<0.020	0.2	04/10/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230437
Date Received: 03/29/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	09:10	03/29/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230438
Date Received: 03/29/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	09:20	03/29/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.57	0.01	03/29/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/29/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.85	NA	04/13/23	IP	Calculation
Total Dissolved Solids	mg/L	90	6.0	04/04/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.006	0.005	04/06/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.910	0.017	03/29/23	NEC*	SM 5310 C
Boron	mg/L	0.010	0.010	04/08/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	04/12/23	IP	SM4500-Norg B-C
Chloride	mg/L	38	3.0	03/29/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.021	0.005	04/11/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	04/11/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.00	0.017	03/29/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.57	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.21	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL	0.005	03/29/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	04/07/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.78	NA	04/13/23	IP	Calculation
E coli	CFU/100mL	10	<1	03/29/23	KF	EPA 1603
Ammonia-N	mg/L	<0.020	0.2	04/10/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230438
Date Received: 03/29/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	09:20	03/29/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230439
Date Received: 03/29/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	09:30	03/29/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.47	0.01	03/29/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/29/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.75	NA	04/12/23	IP	Calculation
Total Dissolved Solids	mg/L	74	6.0	04/04/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.017	0.005	04/17/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	0.858	0.017	03/29/23	NEC*	SM 5310 C
Boron	mg/L	0.019	0.010	04/08/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	04/12/23	IP	SM4500-Norg B-C
Chloride	mg/L	31	3.0	03/29/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.019	0.005	04/11/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	04/12/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.04	0.017	03/29/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.47	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.20	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	BRL**	0.005	06/08/23	AH	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	04/07/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.47	NA	04/12/23	IP	Calculation
E coli	CFU/100mL	< 5	<1	03/29/23	KF	EPA 1603
Ammonia-N	mg/L	<0.020	0.2	04/10/23	*RIA	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230439
Date Received: 03/29/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	09:30	03/29/23				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

** Original sample had 0.140 mg/L, suspect bottle for ortho-Phos contaminated. Retested at later date with different bottle.

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

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

BRL=below reportable limits

**see attached*

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

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

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

Friday, July 7, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230440*
Date Received: *03/29/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-6A A	09:40	03/29/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.58	0.01	03/29/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	03/29/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.79	NA	04/12/23	IP	Calculation
Total Dissolved Solids	mg/L	48	6.0	04/04/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.014	0.005	04/06/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.12	0.017	03/29/23	NEC*	SM 5310 C
Boron	mg/L	0.015	0.010	04/08/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.21	0.2	04/12/23	IP	SM4500-Norg B-C
Chloride	mg/L	19	3.0	03/29/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.014	0.005	04/11/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	04/12/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.09	0.017	03/29/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.58	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.21	NA	07/05/23	KB	Calculation
Ortho Phosphorous (P)	mg/L	0.012	0.005	03/29/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.03	NA	04/07/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.79	NA	04/12/23	IP	Calculation
E coli	CFU/100mL	< 5	<1	03/29/23	KF	EPA 1603
Ammonia-N	mg/L	<0.020	0.2	04/10/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230440
Date Received: 03/29/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-6A A	09:40	03/29/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Client: Envirotech Laboratory, Inc.
State: Liquid

			Analytical Results									
Lab ID	**Client ID**	**Date Sampled**	**TOC mg/L**									
304114	WW-230435 Total	03/29/23	1.22									
304115	WW-230435 Dissolved	03/29/23	1.24									
304116	WW-230436 Total	03/29/23	2.56									
304117	WW-230436 Dissolved	03/29/23	2.14									
304118	WW-230437 Total	03/29/23	2.16									
304119	WW-230437 Dissolved	03/29/23	2.23									
304120	WW-230438 Total	03/29/23	0.910									
304121	WW-230438 Dissolved	03/29/23	1.00									
304122	WW-230439 Total	03/29/23	0.858									
304123	WW-230439 Dissolved	03/29/23	1.04									
304124	WW-230440A Total	03/29/23	1.12									
304125	WW-230440A Dissolved	03/29/23	1.09									
304126	WW-230440B Dissolved	03/29/23	ND									

Analytical Methodology							
Analyte	**Method**	**Detection Limit**	**MRL**	**Units**	**Date Analyzed**	**Cert Status**	DF
TOC	Standard Methods 5310C	0.0170	0.051	mg/L	04/06/23	N	1

Form: Mis

Electronically signed and approved by: Brian L. Bornstein Date: 04/06/23

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

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

Date Received: 4/5/2023
Date Reported: 4/11/2023
P.O. Number WW-230435-440

Work Order #: 2304-05440

Project Name: PLYMOUTH ENV.

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

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

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

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

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

Approved by:

Brent Plant
Data Reporting

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2304-05440
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-230435 S-5B
Sample Type : GRAB
Sample Date / Time : 3/29/2023 @ 08:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	4/10/2023 10:21	VC

Sample Number: 002
Sample Description: WW-230436 S-4A
Sample Type : GRAB
Sample Date / Time : 3/29/2023 @ 09:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	4/10/2023 10:21	VC

Sample Number: 003
Sample Description: WW-230437 S-8A
Sample Type : GRAB
Sample Date / Time : 3/29/2023 @ 09:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	4/10/2023 10:21	VC

Sample Number: 004
Sample Description: WW-230438 S-3A
Sample Type : GRAB
Sample Date / Time : 3/29/2023 @ 09:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	4/10/2023 10:21	VC

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2304-05440
Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-230439 S-2C
Sample Type : GRAB
Sample Date / Time : 3/29/2023 @ 09:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	4/10/2023 10:21	VC

Sample Number: 006
Sample Description: WW-230440 S-6A
Sample Type : GRAB
Sample Date / Time : 3/29/2023 @ 09:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	4/10/2023 10:21	VC

S

Chain of Custody

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

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

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
WW-230435 3-29-23	0800	S-5B	1	500ml Plastic	Diss TKN, TOC diss low, TDS, Diss Phosphorus	NONE
			1	500ml Plastic	TKN, NH3, TOC low, TP	NONE
			1	Plastic	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	~~HNO3~~
			1	100mL Plastic	Bacteria - Eoli	NONE
04316 3-29-23	0910	S-4A	1	500ml Plastic	Diss TKN, TOC diss low, TDS, Diss Phosphorus	NONE
			1	500ml Plastic	TKN, NH3, TOC low, TP	NONE
			1	Plastic	Orthophosphate	NONE
			1	500mL Plastic	NO3, NO2, Chloride	NONE
			1	250mL	Boron	~~HNO3~~
			1	100mL Plastic	Bacteria - Eoli	NONE

5 03/29/23 WM 1330

10

Relinquished By: Date/Time
Kim Tower 3/29/23

Received By: Date/Time:
JP 10:30 3/29/23

SCANNED
JUL 06 2023

S

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative	
0437	3/29/23	0910	S-8A	1	500ml Plastic	Diss TKN, TOC diss low, TDS, Diss Phosphorus	NONE	
				1	500ml Plastic	TKN, NH3, TOC low, TP	NONE	
				1	Plastic	Orthophosphate	NONE	
				1	500mL Plastic	NO3, NO2, Chloride	NONE	
				1	250mL	Boron	~~HNO3~~	
				1	100mL Plastic	Bacteria - Eoli	NONE	20
0438	3/29/23	0920	S-3A	1	500ml Plastic	Diss TKN, TOC diss low, TDS, Diss Phosphorus	NONE	
				1	500ml Plastic	TKN, NH3, TOC low, TP	NONE	
				1	Plastic	Orthophosphate	NONE	
				1	500mL Plastic	NO3, NO2, Chloride	NONE	
				1	250mL	Boron	~~HNO3~~	
				1	100mL Plastic	Bacteria - Eoli	NONE	10

Relinquished By: Date/Time

Received By: Date/Time: ZP 10:30 3/29/23

S

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative	
0439	3/29/23	0930	S-2C	1	500ml Plastic	Diss TKN, TOC diss low, TDS, Diss Phosphorus	NONE	
				1	500ml Plastic	TKN, NH3, TOC low, TP	NONE	
				1	Plastic	Orthophosphate	NONE	
				1	500mL Plastic	NO3, NO2, Chloride	NONE	
				1	250mL	Boron	~~HNO3~~	
				1	100mL Plastic	Bacteria - Eoli	NONE	<5
0440	3/29/23	0940	S-6A	1	500ml Plastic	Diss TKN, TOC diss low, TDS, Diss Phosphorus	NONE	
				1	500ml Plastic	TKN, NH3, TOC low, TP	NONE	
				1	Plastic	Orthophosphate	NONE	
				1	500mL Plastic	NO3, NO2, Chloride	NONE	
				1	250mL	Boron	~~HNO3~~	
				1	100mL Plastic	Bacteria - Eoli	NONE	<5

Relinquished By: Date/Time

Received By: Date/Time: TP 10:30 3/29/23

304114 - 304126

CHAIN OF CUSTODY FORM

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

NE Chromachem
Address: 6 Nichols Street, Salem, MA 01970
Phone#: 978-744-6600
Fax#: 206 984 2474

PWS:
Project Name: Plymouth ENV.
Sampler: KT

Lab ID #	Date	Time	Com	Grab	Station location	DEP ID	Container	Pres.	Sample type	Analysis requested	
WW-230435	03/29/23	0850		X	S-5B		2 VOA	H2SO4	SW	TOC Low	304114
							2 VOA	H2SO4	SW	TOC Dissolved	304115
WW-230436	03/29/23	0910		X	S-4A		2 VOA	H2SO4	SW	TOC Low	304116
							2 VOA	H2SO4	SW	TOC Dissolved	304117
WW-230437	03/29/23	0910		X	S-8A		2 VOA	H2SO4	SW	TOC Low	304118
							2 VOA	H2SO4	SW	TOC Dissolved	304119
WW-230438	03/29/23	0920		X	S-3A		2 VOA	H2SO4	SW	TOC Low	304120
							2 VOA	H2SO4	SW	TOC Dissolved	304121
WW-230439	03/29/23	0930		X	S-2C		2 VOA	H2SO4	SW	TOC Low	304122
							2 VOA	H2SO4	SW	TOC Dissolved	304123
WW-230440A	03/29/23	0940		X	S-6A		2 VOA	H2SO4	SW	TOC Low	304124
							2 VOA	H2SO4	SW	TOC Dissolved	304125
WW-230440B	03/29/23	1600		X	Filtered Blank		1 VOA	H2SO4	Blank	TOC Dissolved	304126

Relinquished:	Date/Time	Received:
[illegible]	4/4/23 1700	UPS
UPS	4/5/23 11:00	AP

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth Env.
Sampler:	KT

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

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

Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested
WW-230435	03/29/23	0850		X	S-5B	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230436	03/29/23	0910		X	S-4A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230437	03/29/23	0910		X	S-8A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230438	03/29/23	0920		X	S-3A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230439	03/29/23	0930		X	S-2C	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230440	03/29/23	0940		X	S-6A	plastic	H_2SO_4	Surface water	Ammonia Low

2304 - 05440

Relinquished:	Date/Time 4/5/23 1405	Received: 4/5/23 1405	Contact lab with any exceeded MCL.
Relinquished:	Date/Time 4/5/23 1730	Received:	Page 1 of 1

5.5°c

Plymouth Environmental

E-F

Calculations 0=<0.

Lab ID	Date	TKN <0.2	Dissolve TKN	NH3 <0.02	NO3 <0.01	NO2 <0.006	Total Nitrogen	T Diss Nitrogen	Diss Inorg Nitrogen	Diss Org Nitrogen	Particulate Org Nitrogen
WW-230435	3/29/2023	0.35	0.28	<0.02	0.53	<0.006	0.880	0.81	0.53	0.28	0.07
WW-230436	3/29/2023	0.91	0.35	<0.02	0.44	<0.006	1.350	0.79	0.44	0.35	0.56
WW-230437	3/29/2023	0.35	0.21	<0.02	0.45	<0.006	0.800	0.66	0.45	0.21	0.14
WW-230438	3/29/2023	0.28	0.21	<0.02	0.57	<0.006	0.850	0.78	0.57	0.21	0.07
WW-230439	3/29/2023	0.28	<0.2	<0.02	0.47	<0.006	0.750	0.47	0.47	<0.20	<0.28
WW-230440	3/29/2023	0.21	0.21	<0.02	0.58	<0.006	0.790	0.79	0.58	0.21	0.00
							0.000	0.00	0.00	<0.2	<0.21
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.35	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
Formulae							0.000	0.00	0.00	0.00	0.00

Dissolved Inorganic Nitrogen	NH3 + NO2 + NO3
Dissolved Organic Nitrogen	TKN Diss - NH3
Particulate Organic Carbon	TOC - DOC
Particulate Organic Nitrogen	(TKN - Ammonia-N) - (TKN Dissolved - Ammonia-N)

2

Total Phos	Diss Total P	Ortho Phos	POC 0=<0.017	TOC <0.017	D TOC <0.017
0.024	0.026	<0.005	BRL	1.220	1.240
0.129	0.014	<0.005	0.420	2.560	2.140
0.026	0.010	<0.005	BRL	2.160	2.230
0.021	0.006	<0.005	BRL	0.910	1.000
0.019	0.017	<0.005	BRL	0.858	1.040
0.014	0.014	0.012	0.030	1.120	1.090
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230620
Date Received: 04/25/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	08:30	04/25/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.21	0.01	04/26/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	04/26/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.49	NA	05/11/23	IP	Calculation
Total Dissolved Solids	mg/L	100	6.0	04/28/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.013	0.005	05/04/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.83	0.017	05/03/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	05/04/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.073	0.02	05/08/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	04/26/23	IP	SM4500-Norg B-C
Chloride	mg/L	49	3.0	04/26/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.031	0.005	05/10/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	04/26/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.44	0.017	05/03/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.28	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.13	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	4.87	*	05/01/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	04/27/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.39	NA	05/15/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.28	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.21	NA	05/11/23	IP	Calculation
E coli	CFU/100ml	10	5	04/25/23	KF @ 15:30	EPA 1603

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

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

BRL=below reportable limits

****see attached***

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

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230620
Date Received: 04/25/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	08:30	04/25/23				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

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

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

BRL=below reportable limits

**see attached*

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

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

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

Friday, July 7, 2023

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

ProjectName: *Eel River SW sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230621*
Date Received: *04/25/23*

Sample Type	Sample Time	Sample Date	Comments			
S-8B A	08:40	04/25/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.15	0.01	04/26/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	04/26/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.57	NA	05/11/23	IP	Calculation
Total Dissolved Solids	mg/L	140	6.0	04/28/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.015	0.005	05/04/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	2.45	0.017	05/03/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	05/04/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.12	0.02	05/08/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	04/26/23	IP	SM4500-Norg B-C
Chloride	mg/L	66	3.0	04/26/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.043	0.005	05/10/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	04/26/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.74	0.017	05/03/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.27	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.09	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	38.7	*	05/01/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.006	0.005	04/27/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.71	NA	05/15/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	NA	05/15/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.36	NA	05/11/23	IP	Calculation
E coli	CFU/100ml	5	5	04/25/23	KF @ 15:30	EPA 1603

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

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

BRL=below reportable limits

****see attached***

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

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230621
Date Received: 04/25/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-8B A	08:40	04/25/23				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

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

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

BRL=below reportable limits

**see attached*

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

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

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

Friday, July 7, 2023

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

ProjectName: *Eel River SW sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230622*
Date Received: *04/25/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	08:50	04/25/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.14	0.01	04/26/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	04/26/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.70	NA	05/11/23	IP	Calculation
Total Dissolved Solids	mg/L	140	6.0	04/28/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.015	0.005	05/04/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	2.59	0.017	05/03/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	05/04/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.090	0.02	05/08/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.56	0.2	04/26/23	IP	SM4500-Norg B-C
Chloride	mg/L	67	3.0	04/26/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.068	0.005	05/10/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	04/26/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.95	0.017	05/03/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.23	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.19	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	29.0	*	05/01/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	04/27/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.64	NA	05/15/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.28	NA	05/15/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.42	NA	05/11/23	IP	Calculation
E coli	CFU/100ml	5	5	04/25/23	KF @ 15:30	EPA 1603

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

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

BRL=below reportable limits

****see attached***

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

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230622
Date Received: 04/25/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	08:50	04/25/23				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

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

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

BRL=below reportable limits

**see attached*

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

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230623
Date Received: 04/25/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	08:55	04/25/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.27	0.01	04/26/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	04/26/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.76	NA	05/11/23	IP	Calculation
Total Dissolved Solids	mg/L	86	6.0	04/28/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.012	0.005	05/04/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.35	0.017	05/03/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	05/04/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.077	0.02	05/08/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.49	0.2	04/26/23	IP	SM4500-Norg B-C
Chloride	mg/L	39	3.0	04/26/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.027	0.005	05/10/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	04/26/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.12	0.017	05/03/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.35	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.27	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	5.14	*	05/01/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	04/27/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.23	NA	05/15/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	05/15/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.62	NA	05/11/23	IP	Calculation
E coli	CFU/100ml	<5	5	04/25/23	KF @ 15:30	EPA 1603

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

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

BRL=below reportable limits

****see attached***

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

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230623
Date Received: 04/25/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	08:55	04/25/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Friday, July 7, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230624*
Date Received: *04/25/23*

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	09:05	04/25/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.16	0.01	04/26/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	04/26/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.58	NA	05/11/23	IP	Calculation
Total Dissolved Solids	mg/L	64	6.0	04/28/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.011	0.005	05/04/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.27	0.017	05/03/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	05/04/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.089	0.02	05/08/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	04/26/23	IP	SM4500-Norg B-C
Chloride	mg/L	34	3.0	04/26/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.025	0.005	05/10/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	04/26/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.01	0.017	05/03/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.25	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.19	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	10.8	*	05/01/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	04/27/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.26	NA	05/15/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	05/15/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.44	NA	05/11/23	IP	Calculation
E coli	CFU/100ml	5	5	04/25/23	KF @ 15:30	EPA 1603

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

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

BRL=below reportable limits

****see attached***

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

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230624
Date Received: 04/25/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	09:05	04/25/23				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

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

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

BRL=below reportable limits

**see attached*

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

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

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

Friday, July 7, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230625*
Date Received: *04/25/23*

Sample Type	Sample Time	Sample Date	Comments			
S-6A A	09:15	04/25/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.29	0.01	04/26/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	04/26/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.64	NA	05/11/23	IP	Calculation
Total Dissolved Solids	mg/L	54	6.0	04/28/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.010	0.005	05/10/23	IP	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.76	0.017	05/03/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	05/04/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.11	0.02	05/08/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.35	0.2	04/26/23	IP	SM4500-Norg B-C
Chloride	mg/L	20	3.0	04/26/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.017	0.005	05/10/23	IP	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	04/26/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.40	0.017	05/03/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.40	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.24	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	3.88	*	05/01/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	04/27/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.36	NA	05/15/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	NA	05/15/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.64	NA	05/11/23	IP	Calculation
E coli	CFU/100ml	15	5	04/25/23	KF @ 15:30	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald Saari
Ronald J. Saari
Laboratory Director

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

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

Friday, July 7, 2023

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

ProjectName: Eel River SW Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-230625
Date Received: 04/25/23

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-6A A	09:15	04/25/23				
Parameters	Units	Test Results	Reportable Limits	Date Analyzed	Analyst	Method

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

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

BRL=below reportable limits

**see attached*

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

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Client: Envirotech Laboratory, Inc.
State: Liquid

			Analytical Results									
Lab ID	**Client ID**	**Date Sampled**	**TOC mg/L**									
305113	WW-230620 Low	04/25/23	1.83									
305114	WW-230620 Dissolved	04/25/23	1.62									
305115	WW-230621 Low	04/25/23	2.45									
305116	WW-230621 Dissolved	04/25/23	1.92									
305117	WW-230622 Low	04/25/23	2.59									
305118	WW-230622 Dissolved	04/25/23	2.13									
305119	WW-230623 Low	04/25/23	1.35									
305120	WW-230623 Dissolved	04/25/23	1.30									
305121	WW-230624 Low	04/25/23	1.27									
305122	WW-230624 Dissolved	04/25/23	1.19									
305123	WW-230625A Low	04/25/23	1.76									
305124	WW-230625A Dissolved	04/25/23	1.58									
305125	WW-230625B Dissolved	04/25/23	0.181									

Analytical Methodology

Analyte	**Method**	**Detection Limit**	**MRL**	**Units**	**Date Analyzed**	**Cert Status**	DF
TOC	Standard Methods 5310C	0.0170	0.051	mg/L	05/03/23	NA	1

Form: Mis

Electronically signed and approved by: Bruce L. Bornstein Date: 05/04/23

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

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

Date Received: 4/28/2023
Date Reported: 5/9/2023
P.O. Number WW-230620-625

Work Order #: 2304-06856

Project Name: PLYMOUTH ENV.

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

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

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

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

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

Approved by: for

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2304-06856
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-230620 S-5B
Sample Type : GRAB
Sample Date / Time : 4/25/2023 @ 08:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.073	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/8/2023	11:51	KPG

Sample Number: 002
Sample Description: WW-230621 S-8B
Sample Type : GRAB
Sample Date / Time : 4/25/2023 @ 08:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.12	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/8/2023	11:51	KPG

Sample Number: 003
Sample Description: WW-230622 S-4A
Sample Type : GRAB
Sample Date / Time : 4/25/2023 @ 08:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.090	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/8/2023	11:51	KPG

Sample Number: 004
Sample Description: WW-230623 S-3A
Sample Type : GRAB
Sample Date / Time : 4/25/2023 @ 08:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.077	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/8/2023	11:51	KPG

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2304-06856
Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-230624 S-2C
Sample Type : GRAB
Sample Date / Time : 4/25/2023 @ 09:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.089	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/8/2023	11:51	KPG

Sample Number: 006
Sample Description: WW-230625 S-6A
Sample Type : GRAB
Sample Date / Time : 4/25/2023 @ 09:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.11	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/8/2023	11:51	KPG

ANALYTICAL REPORT

Lab Number:	L2322415
Client:	Envirotech Laboratories, Inc. 8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563
ATTN:	Ron Saari
Phone:	(800) 339-6460
Project Name:	PLYMOUTH ENVIRONMENTAL MGMT
Project Number:	Not Specified
Report Date:	05/08/23

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

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2322415
Report Date: 05/08/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2322415-01	WW-230620	WATER	Not Specified	04/25/23 08:30	04/26/23
L2322415-02	WW-230621	WATER	Not Specified	04/25/23 08:40	04/26/23
L2322415-03	WW-230622	WATER	Not Specified	04/25/23 08:50	04/26/23
L2322415-04	WW-230623	WATER	Not Specified	04/25/23 08:55	04/26/23
L2322415-05	WW-230624	WATER	Not Specified	04/25/23 09:05	04/26/23
L2322415-06	WW-230625	WATER	Not Specified	04/25/23 09:15	04/26/23

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2322415
Report Date: 05/08/23

Case Narrative

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

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

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

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

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

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

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2322415
Report Date: 05/08/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2322415-01 through -05: The analysis of Chlorophyll A was received with the method required holding time exceeded.

Chlorophyll A

L2322415-06: The sample was analyzed with the method required holding time exceeded.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly Stenstrom

Title: Technical Director/Representative

Date: 05/08/23

INORGANICS
&
MISCELLANEOUS

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2322415
Report Date: 05/08/23

SAMPLE RESULTS

Lab ID: L2322415-01
Client ID: WW-230620
Sample Location: Not Specified

Date Collected: 04/25/23 08:30
Date Received: 04/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	4.87		mg/m3	2.00	NA	1	04/28/23 11:05	05/01/23 11:25	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2322415
Report Date: 05/08/23

SAMPLE RESULTS

Lab ID: L2322415-02
Client ID: WW-230621
Sample Location: Not Specified

Date Collected: 04/25/23 08:40
Date Received: 04/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	38.7		mg/m3	2.00	NA	1	04/28/23 11:05	05/01/23 11:25	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2322415
Report Date: 05/08/23

SAMPLE RESULTS

Lab ID: L2322415-03
Client ID: WW-230622
Sample Location: Not Specified

Date Collected: 04/25/23 08:50
Date Received: 04/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	29.0		mg/m3	2.00	NA	1	04/28/23 11:05	05/01/23 11:25	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2322415
Report Date: 05/08/23

SAMPLE RESULTS

Lab ID: L2322415-04
Client ID: WW-230623
Sample Location: Not Specified

Date Collected: 04/25/23 08:55
Date Received: 04/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	5.14		mg/m3	2.00	NA	1	04/28/23 11:05	05/01/23 11:25	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2322415
Report Date: 05/08/23

SAMPLE RESULTS

Lab ID: L2322415-05
Client ID: WW-230624
Sample Location: Not Specified

Date Collected: 04/25/23 09:05
Date Received: 04/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	10.8		mg/m3	2.00	NA	1	04/28/23 11:05	05/01/23 11:25	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2322415
Report Date: 05/08/23

SAMPLE RESULTS

Lab ID: L2322415-06
Client ID: WW-230625
Sample Location: Not Specified

Date Collected: 04/25/23 09:15
Date Received: 04/26/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	3.88		mg/m3	2.00	NA	1	04/28/23 11:05	05/01/23 11:25	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2322415

Report Date: 05/08/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1772547-1										
Chlorophyll A	ND		mg/m3	2.00	NA	1	04/28/23 11:05	05/01/23 11:25	121,10200H	MKT

Lab Duplicate Analysis

Batch Quality Control

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2322415

Report Date: 05/08/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06 QC Batch ID: WG1772547-2 QC Sample: L2322866-03 Client ID: DUP Sample						
Chlorophyll A	13.0	8.05	mg/m3	**47**	Q	35

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2322415-01A	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-01B	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-02A	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-02B	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-03A	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-03B	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-04A	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-04B	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-05A	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-05B	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-06A	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)
L2322415-06B	Brown Plastic 1000ml unpreserved	A	NA		4.2	Y	Absent		CHLORO-A(1)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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

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

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2322415
Project Number:	Not Specified	**Report Date:**	05/08/23

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
WW-230620	4/25/23	0830	S-5B	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 10	NONE
				2	Amber plastic	Chlorophyll-a	NONE
WW-230621	4/25/23	0840	S-8B	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 5	NONE
				2	Amber plastic	Chlorophyll-a	NONE

04/25/23
1530 KF

Relinquished By: Date/Time
Kim Tow

Received By: Date/Time:
04/28/23
945

SCANNED
JUL 06 2023

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
WW-230622	4/25/23	0850	S-4A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 5	NONE
				2	Amber plastic	Chlorophyll-a	NONE
WW-230623	4/25/23	0855	S-3A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli <5	NONE
				2	Amber plastic	Chlorophyll-a	NONE

Relinquished By: Date/Time
Kim Tower

Received By: Date/Time:
04/25/23 9:48

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
DW-230624	4/25/23	0905	S-2C	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 5	NONE
				2	Amber plastic	Chlorophyll-a	NONE
DW-230625	4/25/23	0915	S-6A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 15	NONE
				2	Amber plastic	Chlorophyll-a	NONE

Relinquished By: Date/Time

Received By: Date/Time: 04/25/23 945

305113-305125

CHAIN OF CUSTODY FORM

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

NE Chromachem
Address: 6 Nichols Street, Salem, MA 01970
Phone#: 978-744-6600
Fax#: 206 984 2474

PWS:
Project Name: Plymouth ENV.
Sampler: KT

Lab ID #	Date	Time	Com	Grab	Station location	DEP ID	Container	Pres.	Sample type	Analysis requested	
WW-230620	04/25/23	0830		X	S-5B		2 VOA	H2SO4	SW	TOC Low	305113
							2 VOA	H2SO4	SW	TOC Dissolved	305114
WW-230621	04/25/23	0840		X	S-8B		2 VOA	H2SO4	SW	TOC Low	305115
							2 VOA	H2SO4	SW	TOC Dissolved	305116
WW-230622	04/25/23	0850		X	S-4A		2 VOA	H2SO4	SW	TOC Low	305117
							2 VOA	H2SO4	SW	TOC Dissolved	305118
WW-230623	04/25/23	0855		X	S-3A		2 VOA	H2SO4	SW	TOC Low	305119
							2 VOA	H2SO4	SW	TOC Dissolved	305120
WW-230624	04/25/23	0905		X	S-2C		2 VOA	H2SO4	SW	TOC Low	305121
							2 VOA	H2SO4	SW	TOC Dissolved	305122
WW-230625A	04/25/23	0915		X	S-6A		2 VOA	H2SO4	SW	TOC Low	305123
							2 VOA	H2SO4	SW	TOC Dissolved	305124
WW-230625B	04/25/23	1600		X	Filtered Blank		2 VOA	H2SO4	Blank	TOC Dissolved	305125

Relinquished:	Date/Time	Received:
[illegible]	5/1/23 1700	UPS
UPS	05/03/23 10	MD

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth Env.
Sampler:	KT

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

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

Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested
WW-230620	04/25/23	0830		X	S-5B	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230621	04/25/23	0840		X	S-8B	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230622	04/25/23	0850		X	S-4A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230623	04/25/23	0855		X	S-3A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230624	04/25/23	0905		X	S-2C	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230625	04/25/23	0915		X	S-6A	plastic	H_2SO_4	Surface water	Ammonia Low

2304-068560

Relinquished:	Date/Time 04/28/23 1450	Received: 4/28/23 1450	Contact lab with any exceeded MCL.
Relinquished:	Date/Time 4/28 /1800	Received: 042823 1800	

5.1°C

L2322415

CHAIN OF CUSTODY FORM

Proj. No.	Project Name: Plymouth Environmental Management
Sampler:	KT

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

Alpha Analytical
Address: 8 Walkup Drive
Westborough, MA 02346
Phone#: 508-898-9220
Fax #:

Lab ID #	Date	Time	Comp	Grab	Sample location	container	Pres.	Sample Type	Analysis Requested
WW-230620	04/25/23	0830		X	S-5B	P	ice	surface water	Chlorophyll-a
WW-230621	04/25/23	0840		X	S-8B	P	ice	surface water	Chlorophyll-a
WW-230622	04/25/23	0850		X	S-4A	P	ice	surface water	Chlorophyll-a
WW-230623	04/25/23	0855		X	S-3A	P	ice	surface water	Chlorophyll-a
WW-230624	04/25/23	0905		X	S-2C	P	ice	surface water	Chlorophyll-a
WW-230625	04/25/23	0915		X	S-6A	P	ice	surface water	Chlorophyll-a

Relinquished:	Date/Time	Received:	Relinquished:	Date/Time	Received:
TP	4/24/23 9:06	MCM AR	MCM	4/26/23 1050	
Relinquished:	Date/Time	Received:	Relinquished:	Date/Time	Received:

Plymouth Environmental

E-F

Calculations 0=<0.

Lab ID	Date	TKN <0.2	Dissolv TKN	NH3 <0.02	NO3 <0.01	NO2 <0.006	Total Nitrogen	T Diss Nitrogen	Diss Inorg Nitrogen	Diss Org Nitrogen	Particulate Org Nitrogen
WW-230620	4/25/2023	0.28	<0.2	0.073	0.21	<0.006	0.490	0.21	0.28	<0.13	<0.28
WW-230621	4/25/2023	0.42	0.21	0.120	0.15	<0.006	0.570	0.36	0.27	0.09	0.21
WW-230622	4/25/2023	0.56	0.28	0.090	0.14	<0.006	0.700	0.42	0.23	0.19	0.28
WW-230623	4/25/2023	0.49	0.35	0.077	0.27	<0.005	0.760	0.62	0.35	0.27	0.14
WW-230624	4/25/2023	0.42	0.28	0.089	0.16	<0.006	0.580	0.44	0.25	0.19	0.14
WW-230625	4/25/2023	0.35	0.35	0.110	0.29	<0.006	0.640	0.64	0.40	0.24	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.35	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
							0.000	0.00	0.00	0.00	0.00
Formulae							0.000	0.00	0.00	0.00	0.00

Dissolved Inorganic Nitrogen	NH3 + NO2 + NO3
Dissolved Organic Nitrogen	TKN Diss - NH3
Particulate Organic Carbon	TOC - DOC
Particulate Organic Nitrogen	(TKN - Ammonia-N) - (TKN Dissolved - Ammonia-N)

2

Total Phos	Diss Total P	Ortho Phos	POC 0=<0.017	TOC <0.017	D TOC <0.017
0.031	0.013	<0.005	0.390	1.830	1.440
0.043	0.015	0.006	0.710	2.450	1.740
0.068	0.015	<0.005	0.640	2.590	1.950
0.027	0.012	<0.005	0.230	1.350	1.120
0.025	0.011	<0.005	0.260	1.270	1.010
0.017	0.010	<0.005	0.360	1.760	1.400
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		
			BRL		

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

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

Wednesday, November 29, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230753*
Date Received: *05/09/23*

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	09:05	05/09/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.14	0.01	05/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	05/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.63	NA	07/05/23	KF	Calculation
Total Dissolved Solids	mg/L	84	6.0	05/16/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.016	0.005	05/15/23	IP	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.82	0.017	05/23/23	NEC*	SM 5310 C
Boron	mg/L	0.010	0.010	05/18/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	05/16/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.49	0.2	05/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	47	3.0	05/09/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.045	0.005	05/18/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	05/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.28	0.017	05/23/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.14	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.28	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	11.5	*	05/12/23	RIA*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	05/11/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	11/29/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.42	NA	07/05/23	KF	Calculation
E coli	CFU/100ml	15	5	05/09/23	GB @ 13:45	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, November 29, 2023

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

ProjectName:	*Eel River SW Sampling*	***Comments:***
Project Number:		
Sampled By:	*Kim Tower*	
Lab Order Number:	*WW-230753*	
Date Received:	*05/09/23*	

Sample Type	***Sample Time***	***Sample Date***	***Comments***			
S-5B A	09:05	05/09/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, November 29, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230754*
Date Received: *05/09/23*

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	09:15	05/09/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.16	0.01	05/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	05/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.5	NA	07/05/23	KF	Calculation
Total Dissolved Solids	mg/L	100	6.0	05/16/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.019	0.005	05/18/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	2.94	0.017	05/23/23	NEC*	SM 5310 C
Boron	mg/L	0.011	0.010	05/18/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	05/15/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	1.3	0.2	05/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	58	3.0	05/09/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.197	0.005	05/18/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.49	0.20	05/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.16	0.017	05/23/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.16	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.49	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	38.6	*	05/12/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.008	0.005	05/11/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.78	NA	11/29/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.81	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.65	NA	07/05/23	KF	Calculation
E coli	CFU/100ml	50	5	05/09/23	GB @ 13:45	EPA 1603

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

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

BRL=below reportable limits

****see attached***

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

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

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

Wednesday, November 29, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230754*
Date Received: *05/09/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	09:15	05/09/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Wednesday, November 29, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230755*
Date Received: *05/09/23*

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	09:25	05/09/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.13	0.01	05/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	05/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.6	NA	07/05/23	KF	Calculation
Total Dissolved Solids	mg/L	100	6.0	05/16/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.018	0.005	05/18/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	2.77	0.017	05/23/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	05/18/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	05/16/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	1.5	0.2	05/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	47	3.0	05/09/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.199	0.005	05/18/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.42	0.20	05/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	2.19	0.017	05/23/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.13	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.42	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	90.4	*	05/12/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.006	0.005	05/11/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.58	NA	11/29/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	1.08	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.55	NA	07/05/23	KF	Calculation
E coli	CFU/100ml	35	5	05/09/23	GB @ 13:45	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, November 29, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230755*
Date Received: *05/09/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	09:25	05/09/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, November 29, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230756*
Date Received: *05/09/23*

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	09:35	05/09/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.20	0.01	05/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	05/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.48	NA	07/05/23	KF	Calculation
Total Dissolved Solids	mg/L	68	6.0	05/16/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.008	0.005	05/18/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.20	0.017	05/23/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	05/19/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	05/16/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	05/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	35	3.0	05/09/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.052	0.005	05/18/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	05/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.10	0.017	05/23/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.20	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.21	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	13.6	*	05/12/23	RIA*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	05/11/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.10	NA	11/29/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.41	NA	07/05/23	KF	Calculation
E coli	CFU/100ml	20	5	05/09/23	GB @ 13:45	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, November 29, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230756*
Date Received: *05/09/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	09:35	05/09/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Wednesday, November 29, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230757*
Date Received: *05/09/23*

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	09:45	05/09/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.15	0.01	05/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	05/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.64	NA	07/05/23	KF	Calculation
Total Dissolved Solids	mg/L	50	6.0	05/16/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.007	0.005	05/18/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.28	0.017	05/23/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	05/19/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	05/16/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.49	0.2	05/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	33	3.0	05/09/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.035	0.005	05/18/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	05/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.23	0.017	05/23/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.15	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.35	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	13.4	*	05/12/23	RIA*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	05/11/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.05	NA	11/29/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.50	NA	07/05/23	KF	Calculation
E coli	CFU/100ml	BRL	5	05/09/23	GB @ 13:45	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, November 29, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230757*
Date Received: *05/09/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	09:45	05/09/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Wednesday, November 29, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230758*
Date Received: *05/09/23*

Sample Type	Sample Time	Sample Date	Comments			
S-6A A	09:55	05/09/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.21	0.01	05/09/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	05/09/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.49	NA	07/05/23	KF	Calculation
Total Dissolved Solids	mg/L	40	6.0	05/16/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.009	0.005	05/18/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.79	0.017	05/23/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	05/19/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	05/16/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	05/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	19	3.0	05/09/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.021	0.005	05/18/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	05/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.57	0.017	05/23/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.21	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	BRL	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	ND	*	05/12/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.007	0.005	05/11/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.22	NA	11/29/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.28	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.21	NA	07/05/23	KF	Calculation
E coli	CFU/100ml	25	5	05/09/23	GB @ 13:45	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, November 29, 2023

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

ProjectName:	*Eel River SW Sampling*	***Comments:***
Project Number:		
Sampled By:	*Kim Tower*	
Lab Order Number:	*WW-230758*	
Date Received:	*05/09/23*	

Sample Type	***Sample Time***	***Sample Date***	***Comments***			
S-6A A	09:55	05/09/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ANALYTICAL REPORT

Lab Number:	L2325453
Client:	Envirotech Laboratories, Inc. 8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563
ATTN:	Ron Saari
Phone:	(800) 339-6460
Project Name:	PLYMOUTH ENVIRONMENTAL MGMT
Project Number:	Not Specified
Report Date:	05/23/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2325453
Report Date: 05/23/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2325453-01	WW-230753	WATER	Not Specified	05/09/23 09:05	05/09/23
L2325453-02	WW-230754	WATER	Not Specified	05/09/23 09:15	05/09/23
L2325453-03	WW-230755	WATER	Not Specified	05/09/23 09:25	05/09/23
L2325453-04	WW-230756	WATER	Not Specified	05/09/23 09:35	05/09/23
L2325453-05	WW-230757	WATER	Not Specified	05/09/23 09:45	05/09/23
L2325453-06	WW-230758	WATER	Not Specified	05/09/23 09:55	05/09/23

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2325453
Report Date: 05/23/23

Case Narrative

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

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

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

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

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

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

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2325453
Project Number:	Not Specified	**Report Date:**	05/23/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Ashaley Moynihan

Title: Technical Director/Representative

Date: 05/23/23

INORGANICS
&
MISCELLANEOUS

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2325453
Report Date: 05/23/23

SAMPLE RESULTS

Lab ID: L2325453-01
Client ID: WW-230753
Sample Location: Not Specified

Date Collected: 05/09/23 09:05
Date Received: 05/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	11.5		mg/m3	2.00	NA	1	05/10/23 08:55	05/12/23 12:20	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2325453
Report Date: 05/23/23

SAMPLE RESULTS

Lab ID: L2325453-02
Client ID: WW-230754
Sample Location: Not Specified

Date Collected: 05/09/23 09:15
Date Received: 05/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	38.6		mg/m3	2.00	NA	1	05/10/23 08:55	05/12/23 12:20	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2325453
Report Date: 05/23/23

SAMPLE RESULTS

Lab ID: L2325453-03
Client ID: WW-230755
Sample Location: Not Specified

Date Collected: 05/09/23 09:25
Date Received: 05/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	90.4		mg/m3	2.00	NA	1	05/10/23 08:55	05/12/23 12:20	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2325453
Report Date: 05/23/23

SAMPLE RESULTS

Lab ID: L2325453-04
Client ID: WW-230756
Sample Location: Not Specified

Date Collected: 05/09/23 09:35
Date Received: 05/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	13.6		mg/m3	2.00	NA	1	05/10/23 08:55	05/12/23 12:20	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2325453
Report Date: 05/23/23

SAMPLE RESULTS

Lab ID: L2325453-05
Client ID: WW-230757
Sample Location: Not Specified

Date Collected: 05/09/23 09:45
Date Received: 05/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	13.4		mg/m3	2.00	NA	1	05/10/23 08:55	05/12/23 12:20	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2325453
Report Date: 05/23/23

SAMPLE RESULTS

Lab ID: L2325453-06
Client ID: WW-230758
Sample Location: Not Specified

Date Collected: 05/09/23 09:55
Date Received: 05/09/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	ND		mg/m3	2.00	NA	1	05/10/23 08:55	05/12/23 12:20	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2325453

Report Date: 05/23/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1777158-1										
Chlorophyll A	ND		mg/m3	2.00	NA	1	05/10/23 08:55	05/12/23 12:20	121,10200H	MKT

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2325453-01A	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-01B	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-02A	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-02B	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-03A	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-03B	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-04A	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-04B	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-05A	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-05B	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-06A	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)
L2325453-06B	Brown Plastic 1000ml unpreserved	A	NA		2.1	Y	Absent		CHLORO-A(1)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.**

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

L2375453

CHAIN OF CUSTODY FORM

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

Alpha Analytical
Address: 8 Walkup Drive
Westborough, MA 02346
Phone#: 508-898-9220
Fax #:

Proj. No.
Project Name: Plymouth Environmental Management
Sampler: KT

Lab ID #	Date	Time	Comp	Grab	Sample location	container	Pres.	Sample Type	Analysis Requested
WW-230753	05/09/23	0905		X	S-5B	P	ice	surface water	Chlorophyll-a
WW-230754	05/09/23	0915		X	S-8A	P	ice	surface water	Chlorophyll-a
WW-230755	05/09/23	0925		X	S-4A	P	ice	surface water	Chlorophyll-a
WW-230756	05/09/23	0935		X	S-3A	P	ice	surface water	Chlorophyll-a
WW-230757	05/09/23	0945		X	S-2C	P	ice	surface water	Chlorophyll-a
WW-230758	05/09/23	0955		X	S-6A	P	ice	surface water	Chlorophyll-a

Relinquished:	Date/Time	Received:	Relinquished:	Date/Time	Received:
	05/09/23 1300		5/9/23 1815		
Relinquished:	Date/Time	Received:	Relinquished:	Date/Time	Received:

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Client: Envirotech Laboratory, Inc.
State: Liquid

			Analytical Results									
Lab ID	**Client ID**	**Date Sampled**	**TOC mg/L**									
305382	WW-230753 Low	05/09/23	1.82									
305383	WW-230753 Dissloved	05/09/23	2.28									
305384	WW-230754 Low	05/09/23	2.94									
305385	WW-230754 Dissolved	05/09/23	2.16									
305386	WW-230755 Low	05/09/23	2.77									
305387	WW-230755 Diossolved	05/09/23	2.19									
305388	WW-230756 Low	05/09/23	1.20									
305389	WW-230756 Dissolved	05/09/23	1.10									
305390	WW-230757 Low	05/09/23	1.28									
305391	WW-230757 Dissolved	05/09/23	1.23									
305392	WW-230758A Low	05/09/23	1.79									
305393	WW-230758A Dissolved	05/09/23	1.57									
305394	WW-230758B Dissolved	05/09/23	ND									

Analytical Methodology							
Analyte	**Method**	**Detection Limit**	**MRL**	**Units**	**Date Analyzed**	**Cert Status**	DF
TOC	Standard Methods 5310C	0.0170	0.051	mg/L	05/23/23	NA	1

Form: Mis

Electronically signed and approved by: Brian L. Bornstein Date: 05/24/23

305382 - 305394

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth ENV.
Sampler:	KT

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

NE Chromachem
Address 6 Nichols Street
Salem, MA 01970
Phone# 978-744-6600
Fax# 206 984 2474

Lab ID #	Date	Time	Com	Grab	Station location	DEP ID	Container	Pres.	Sample type	Analysis requested	
WW-230753	05/09/23	0905		X	S-5B		2 VOA	H2SO4	SW	TOC Low	305382
							2 VOA	H2SO4	SW	TOC Dissolved	305383
WW-230754	05/09/23	0915		X	S-8A		2 VOA	H2SO4	SW	TOC Low	305384
							2 VOA	H2SO4	SW	TOC Dissolved	305385
WW-230755	05/09/23	0925		X	S-4A		2 VOA	H2SO4	SW	TOC Low	305386
							2 VOA	H2SO4	SW	TOC Dissolved	305387
WW-230756	05/09/23	0935		X	S-3A		2 VOA	H2SO4	SW	TOC Low	305388
							2 VOA	H2SO4	SW	TOC Dissolved	305389
WW-230757	05/09/23	0945		X	S-2C		2 VOA	H2SO4	SW	TOC Low	305390
							2 VOA	H2SO4	SW	TOC Dissolved	305391
WW-230758A	05/09/23	0955		X	S-6A		2 VOA	H2SO4	SW	TOC Low	305392
							2 VOA	H2SO4	SW	TOC Dissolved	305393
WW-230758B	05/09/23	1600		X	Filtered Blank		2 VOA	H2SO4	Blank	TOC Dissolved	305394

Relinquished:		Date/Time 1700 05/17/23	Received: UPS
Relinquished: UPS		Date/Time 5/18/23 3:00 pm	Received: AP

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

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

Date Received: 5/11/2023
Date Reported: 5/17/2023
P.O. Number WW-230435-440

Work Order #: 2305-07589

Project Name: PLYMOUTH ENV.

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

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

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

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

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

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2305-07589
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-230753 S-5B
Sample Type : GRAB
Sample Date / Time : 5/09/2023 @ 09:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/16/2023 8:28	VC

Sample Number: 002
Sample Description: WW-230754 S-8A
Sample Type : GRAB
Sample Date / Time : 5/09/2023 @ 09:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/15/2023 9:38	VC

Sample Number: 003
Sample Description: WW-230755 S-4A
Sample Type : GRAB
Sample Date / Time : 5/09/2023 @ 09:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/16/2023 8:28	VC

Sample Number: 004
Sample Description: WW-230756 S-3A
Sample Type : GRAB
Sample Date / Time : 5/09/2023 @ 09:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/16/2023 8:28	VC

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2305-07589
Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-230757 S-2C
Sample Type : GRAB
Sample Date / Time : 5/09/2023 @ 09:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/16/2023 8:28	VC

Sample Number: 006
Sample Description: WW-230758 S-6A
Sample Type : GRAB
Sample Date / Time : 5/09/2023 @ 09:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	5/16/2023 8:28	VC

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth Env.
Sampler:	KT

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

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

Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested
WW-230753	05/09/23	0905		X	S-5B	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230754	05/09/23	0915		X	S-8A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230755	05/09/23	0925		X	S-4A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230756	05/09/23	0935		X	S-3A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230757	05/09/23	0945		X	S-2C	plastic	H_2SO_4	Surface water	Ammonia Low
WW-230758	05/09/23	0955		X	S-6A	plastic	H_2SO_4	Surface water	Ammonia Low

2305-07589

Relinquished:	Date/Time 05/11/23 1230	Received: 5/11/23 1330
Relinquished:	Date/Time 5/11/23 1700	Received: 5/11/23 1700

Contact lab with any exceeded MCL

S

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
WW-230753	5/9/23	0905	S-5B	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 15	NONE
				2	Amber plastic	Chlorophyll-a	NONE
0754	5/9/23	0915	S-8A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 50	NONE
				2	Amber plastic	Chlorophyll-a	NONE

05/09/23
1345 GB

Relinquished By: Date/Time
Kim Tower

Received By: Date/Time:
[illegible] 5/9/23 1100

SCANNED
NOV 30 2023

S

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
0755	5/9/23	0925	S-4A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 35	NONE
				2	Amber plastic	Chlorophyll-a	NONE
0756	5/9/23	0935	S-3A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 20	NONE
				2	Amber plastic	Chlorophyll-a	NONE

Relinquished By: Date/Time
Kim Tower

Received By: Date/Time:
[illegible] 5/9/23 1100

5

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
0757	5/9/23	0945	S-2C	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli <5	NONE
				2	Amber plastic	Chlorophyll-a	NONE
0758	5/9/23	0955	S-6A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 25	NONE
				2	Amber plastic	Chlorophyll-a	NONE

Relinquished By: Date/Time
Kim Tower

Received By: Date/Time:
[illegible] 5/9/23 1100

SCANNED
NOV 30 2023

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

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

Sunday, December 10, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231200*
Date Received: *07/11/23*

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	08:55	07/11/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	BRL	0.01	07/11/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	07/11/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.21	NA	09/05/23	KB	Calculation
Total Dissolved Solids	mg/L	72	6.0	07/17/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.013	0.005	07/17/23		SM 4500-P-B,E
Total Organic Carbon*	mg/L	NT*	0.017			SM 5310 C
Boron	mg/L	BRL	0.010	09/01/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	07/25/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.21	0.2	07/19/23	IP	SM4500-Norg B-C
Chloride	mg/L	33	3.0	07/11/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.040	0.005	07/17/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	BRL	0.20	07/18/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	NT*	0.017			EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	09/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.20	NA	09/05/23	KB	Calculation
Chlorophyll-a	*	13.0	*	07/14/23	RIA*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	07/13/23	AH	SM 4500-P
Particulate Organic Carbon	mg/L	NT*	NA			SM 5310 C
Particulate Organic Nitrogen	mg/L	<0.21	NA	09/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	<0.21	NA	09/05/23	KB	Calculation
E coli	CFU/100ml	30	5	07/11/23	GB @ 13:00	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Sunday, December 10, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231200*
Date Received: *07/11/23*

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	08:55	07/11/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

*Not Tested, samples damaged in shipment to subcontracted lab.

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

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

BRL=below reportable limits

****see attached***

By: _____
Ronald J. Saari
Laboratory Director

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

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

Sunday, December 10, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231201*
Date Received: *07/11/23*

Sample Type	Sample Time	Sample Date	Comments			
S-6A A	09:10	07/11/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	BRL	0.01	07/11/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	07/11/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.35	NA	09/05/23	KB	Calculation
Total Dissolved Solids	mg/L	54	6.0	07/17/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.026	0.005	07/17/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	NT*	0.017			SM 5310 C
Boron	mg/L	0.010	0.010	09/01/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	07/25/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.35	0.2	07/19/23	IP	SM4500-Norg B-C
Chloride	mg/L	21	3.0	07/11/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.070	0.005	07/17/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	07/19/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	NT*	0.017			EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	09/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.21	NA	09/05/23	KB	Calculation
Chlorophyll-a	*	6.24	*	07/14/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.012	0.005	07/13/23	AH	SM 4500-P
Particulate Organic Carbon	mg/L	NT*	NA			SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	09/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.21	NA	09/05/23	KB	Calculation
E coli	CFU/100ml	135	5	07/11/23	GB @ 13:00	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Sunday, December 10, 2023

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

ProjectName:	*Eel River SW Sampling*	***Comments:***
Project Number:		
Sampled By:	*Kim Tower*	
Lab Order Number:	*WW-231201*	
Date Received:	*07/11/23*	

Sample Type	***Sample Time***	***Sample Date***	***Comments***			
S-6A A	09:10	07/11/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***

*Not Tested, samples damaged in shipment to subcontracted lab.

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

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

BRL=below reportable limits

****see attached***

By: _____
Ronald J. Saari
Laboratory Director

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

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

Sunday, December 10, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231202*
Date Received: *07/11/23*

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	08:15	07/11/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	BRL	0.01	07/11/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	07/11/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.42	NA	09/05/23	KB	Calculation
Total Dissolved Solids	mg/L	110	6.0	07/17/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.042	0.005	07/17/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	NT*	0.017			SM 5310 C
Boron	mg/L	0.034	0.010	08/31/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.18	0.02	07/25/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	07/19/23	IP	SM4500-Norg B-C
Chloride	mg/L	53	3.0	07/11/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.092	0.005	07/17/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	07/19/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	NT*	0.017			EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.18	NA	09/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.17	NA	09/05/23	KB	Calculation
Chlorophyll-a	*	7.62	*	07/14/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.028	0.005	07/13/23	AH	SM 4500-P
Particulate Organic Carbon	mg/L	NT*	NA			SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	09/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.35	NA	09/05/23	KB	Calculation
E coli	CFU/100ml	130	5	07/11/23	GB @ 13:00	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Sunday, December 10, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231202*
Date Received: *07/11/23*

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	08:15	07/11/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

*Not Tested, samples damaged in shipment to subcontracted lab.

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

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

BRL=below reportable limits

****see attached***

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

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

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

Sunday, December 10, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231203*
Date Received: *07/11/23*

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	08:25	07/11/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	BRL	0.01	07/12/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	07/12/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.1	NA	09/05/23	KB	Calculation
Total Dissolved Solids	mg/L	100	6.0	07/19/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.025	0.005	07/17/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	NT*	0.017			SM 5310 C
Boron	mg/L	0.032	0.010	08/31/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.044	0.02	07/25/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	1.1	0.2	07/19/23	IP	SM4500-Norg B-C
Chloride	mg/L	40	3.0	07/12/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.198	0.005	07/17/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	07/19/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	NT*	0.017			EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.04	NA	09/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.24	NA	09/05/23	KB	Calculation
Chlorophyll-a	*	19.6	*	07/14/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.012	0.005	07/13/23	AH	SM 4500-P
Particulate Organic Carbon	mg/L	NT*	NA			SM 5310 C
Particulate Organic Nitrogen	mg/L	0.82	NA	09/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.28	NA	09/05/23	KB	Calculation
E coli	CFU/100ml	295	5	07/11/23	GB @ 13:00	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Sunday, December 10, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231203*
Date Received: *07/11/23*

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	08:25	07/11/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

*Not Tested, samples damaged in shipment to subcontracted lab.

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Sunday, December 10, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231204*
Date Received: *07/11/23*

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	08:15	07/11/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	BRL	0.01	07/11/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	07/11/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.42	NA	09/05/23	KB	Calculation
Total Dissolved Solids	mg/L	110	6.0	07/19/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.027	0.005	07/17/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	NT*	0.017			SM 5310 C
Boron	mg/L	0.046	0.010	08/31/23	KB	EPA 200.7
Ammonia-N *	mg/L	0.030	0.02	07/25/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	07/20/23	IP	SM4500-Norg B-C
Chloride	mg/L	40	3.0	07/12/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.082	0.005	07/17/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	07/19/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	NT*	0.017			EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.03	NA	09/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.18	NA	09/05/23	KB	Calculation
Chlorophyll-a	*	6.20	*	07/14/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.012	0.005	07/13/23	AH	SM 4500-P
Particulate Organic Carbon	mg/L	NT*	NA			SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	NA	09/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.21	NA	09/05/23	KB	Calculation
E coli	CFU/100ml	190	5	07/11/23	GB @ 13:00	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Sunday, December 10, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231204*
Date Received: *07/11/23*

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	08:15	07/11/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

*Not Tested, samples damaged in shipment to subcontracted lab.

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

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

BRL=below reportable limits

****see attached***

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

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

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

Sunday, December 10, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231205*
Date Received: *07/11/23*

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	08:45	07/11/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	BRL	0.01	07/11/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	07/11/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.42	NA	09/05/23	KB	Calculation
Total Dissolved Solids	mg/L	104	6.0	07/19/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.016	0.005	07/17/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	NT*	0.017			SM 5310 C
Boron	mg/L	0.030	0.010	08/31/23	KB	EPA 200.7
Ammonia-N *	mg/L	BRL	0.02	07/25/23	RIA*	SM4500 NH3 C
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	07/20/23	IP	SM4500-Norg B-C
Chloride	mg/L	41	3.0	07/12/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.055	0.005	07/25/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	07/20/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	NT*	0.017			EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	09/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.35	NA	09/05/23	KB	Calculation
Chlorophyll-a	*	4.68	*	07/14/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.011	0.005	07/13/23	AH	SM 4500-P
Particulate Organic Carbon	mg/L	NT*	NA			SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	09/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.35	NA	09/05/23	KB	Calculation
E coli	CFU/100ml	205	5	07/11/23	GB @ 13:00	EPA 1603

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Sunday, December 10, 2023

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

ProjectName:	*Eel River SW Sampling*	***Comments:***
Project Number:		
Sampled By:	*Kim Tower*	
Lab Order Number:	*WW-231205*	
Date Received:	*07/11/23*	

Sample Type	***Sample Time***	***Sample Date***	***Comments***			
S-3A A	08:45	07/11/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***

*Not Tested, samples damaged in shipment to subcontracted lab.

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

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

Date Received: 7/17/2023
Date Reported: 7/31/2023
P.O. Number WW-231200-205

Work Order #: 2307-11856

Project Name: PLYMOUTH ENV.

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

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

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

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

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

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MPN	Most Probably Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2307-11856
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-231200 S-2C
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 08:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	7/25/2023 9:25	VC

Sample Number: 002
Sample Description: WW-231201 S-6A
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 09:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	7/25/2023 11:21	VC

Sample Number: 003
Sample Description: WW-231202 S-5B
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 08:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.18	0.020	mg/L	SM4500NH3-B,H 18-21ed	7/25/2023 9:25	VC

Sample Number: 004
Sample Description: WW-231203 S-4A
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 08:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	0.044	0.020	mg/L	SM4500NH3-B,H 18-21ed	7/25/2023 9:25	VC

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2307-11856
Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-231204 S-8A
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 08:35

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.030	0.020	mg/L	SM4500NH3-B,H 18-21ed	7/25/2023	9:25	VC

Sample Number: 006
Sample Description: WW-231205 S-34
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 08:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	7/25/2023	9:25	VC

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth Env.
Sampler:	KT

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

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

Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested
WW-231200	07/11/23	0855		X	S-2C	plastic	H_2SO_4	Surface water	Ammonia Low
WW-231201	07/11/23	0910		X	S-6A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-231202	07/11/23	0815		X	S-5B	plastic	H_2SO_4	Surface water	Ammonia Low
WW-231203	07/11/23	0825		X	S-4A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-231204	07/11/23	0835		X	S-8A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-231205	07/11/23	0845		X	S-34	plastic	H_2SO_4	Surface water	Ammonia Low

2307 - 11856

Relinquished:	Date/Time 07/17/23 1315	Received: 7/17/23 1315
Relinquished:	Date/Time 7/17/23 1545	Received:

Contact lab with any exceeded MCL

RK
5.3°C

ANALYTICAL REPORT

Lab Number:	L2339383
Client:	Envirotech Laboratories, Inc. 8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563
ATTN:	Ron Saari
Phone:	(800) 339-6460
Project Name:	PLYMOUTH ENVIRONMENTAL MGMT
Project Number:	Not Specified
Report Date:	07/25/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2339383
Report Date: 07/25/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2339383-01	WW-231200	WATER	Not Specified	07/11/23 08:55	07/11/23
L2339383-02	WW-231201	WATER	Not Specified	07/11/23 09:10	07/11/23
L2339383-03	WW-231202	WATER	Not Specified	07/11/23 08:15	07/11/23
L2339383-04	WW-231203	WATER	Not Specified	07/11/23 08:25	07/11/23
L2339383-05	WW-231204	WATER	Not Specified	07/11/23 08:35	07/11/23
L2339383-06	WW-231205	WATER	Not Specified	07/11/23 08:45	07/11/23

Case Narrative

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

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

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

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

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

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

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2339383
Project Number:	Not Specified	**Report Date:**	07/25/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Chlorophyll A

WG1802222: A Laboratory Duplicate could not be performed due to insufficient sample volume available for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 07/25/23

INORGANICS
&
MISCELLANEOUS

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2339383
Report Date: 07/25/23

SAMPLE RESULTS

Lab ID: L2339383-01
Client ID: WW-231200
Sample Location: Not Specified

Date Collected: 07/11/23 08:55
Date Received: 07/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	13.0		mg/m3	2.00	NA	1	07/12/23 07:50	07/14/23 11:00	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2339383
Report Date: 07/25/23

SAMPLE RESULTS

Lab ID: L2339383-02
Client ID: WW-231201
Sample Location: Not Specified

Date Collected: 07/11/23 09:10
Date Received: 07/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	6.24		mg/m3	2.00	NA	1	07/12/23 07:50	07/14/23 11:00	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2339383
Report Date: 07/25/23

SAMPLE RESULTS

Lab ID: L2339383-03
Client ID: WW-231202
Sample Location: Not Specified

Date Collected: 07/11/23 08:15
Date Received: 07/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	7.62		mg/m3	2.00	NA	1	07/12/23 07:50	07/14/23 11:00	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2339383
Report Date: 07/25/23

SAMPLE RESULTS

Lab ID: L2339383-04
Client ID: WW-231203
Sample Location: Not Specified

Date Collected: 07/11/23 08:25
Date Received: 07/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	19.6		mg/m3	2.00	NA	1	07/12/23 07:50	07/14/23 11:00	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2339383
Report Date: 07/25/23

SAMPLE RESULTS

Lab ID: L2339383-05
Client ID: WW-231204
Sample Location: Not Specified

Date Collected: 07/11/23 08:35
Date Received: 07/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	6.20		mg/m3	2.00	NA	1	07/12/23 07:50	07/14/23 11:00	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2339383
Report Date: 07/25/23

SAMPLE RESULTS

Lab ID: L2339383-06
Client ID: WW-231205
Sample Location: Not Specified

Date Collected: 07/11/23 08:45
Date Received: 07/11/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	4.68		mg/m3	2.00	NA	1	07/12/23 07:50	07/14/23 11:00	121,10200H	MKT

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2339383
Report Date: 07/25/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1802222-1										
Chlorophyll A	ND		mg/m3	2.00	NA	1	07/12/23 07:50	07/14/23 11:00	121,10200H	MKT

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2339383-01A	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-01B	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-02A	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-02B	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-03A	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-03B	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-04A	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-04B	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-05A	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-05B	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-06A	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)
L2339383-06B	Brown Plastic 1000ml unpreserved	A	NA		2.3	Y	Absent		CHLORO-A(1)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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

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

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

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

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.**

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

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

L2339383

CHAIN OF CUSTODY FORM

Proj. No.	Project Name: Plymouth Environmental Management
Sampler:	KT

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

Alpha Analytical
Address: 8 Walkup Drive
Westborough, MA 02346
Phone#: 508-898-9220
Fax #:

Lab ID #	Date	Time	Comp	Grab	Sample location	container	Pres.	Sample Type	Analysis Requested
WW-231200	07/11/23	0855		X	S-2C	P	ice	surface water	Chlorophyll-a
WW-231201	07/11/23	0810		X	S-5A	P	ice	surface water	Chlorophyll-a
WW-231202	07/11/23	0815		X	S-5B	P	ice	surface water	Chlorophyll-a
WW-231203	07/11/23	0825		X	S-4A	P	ice	surface water	Chlorophyll-a
WW-231204	07/11/23	0835		X	S-8A	P	ice	surface water	Chlorophyll-a
WW-231205	07/11/23	0845		X	S-3A	P	ice	surface water	Chlorophyll-a

Relinquished:	Date/Time	Received:	Relinquished:	Date/Time	Received:
[illegible]	7/11/23 1230	7/11/23 VE Nang AAL 12:30			
Relinquished: VE Nang AAL	Date/Time 7/11/23 17:48	Received: [illegible]	Relinquished:	Date/Time	Received:

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
W231200	7/11/23	0855	S-2C	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 30	NONE
				2	Amber plastic	Chlorophyll-a	NONE
W231201	7/11/23	0910	S-6A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 135	NONE
				2	Amber plastic	Chlorophyll-a	NONE

07/11/23
1300 GB

Relinquished By: Date/Time

Received By: Date/Time: AH 7/11 11:00

7/13 1900 Emailed Kim results e-coli for S-4A sample -KT

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
W231202	7/11/23	0815	S-5B	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 130	NONE
				2	Amber plastic	Chlorophyll-a	NONE
W231203	7/11/23	0825	S-4A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 295	NONE
				2	Amber plastic	Chlorophyll-a	NONE

Relinquished By:	Date/Time	Received By:	Date/Time:
KTTa		AH	7/11 11:00

Chain of Custody

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

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

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
W231204	7/11/23	0835	S-8A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 190	NONE
				2	Amber plastic	Chlorophyll-a	NONE
W231205	7/11/23	0845	S-3A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 205	NONE
				2	Amber plastic	Chlorophyll-a	NONE

Relinquished By: Date/Time

Received By: Date/Time:

AH 11:00 7/11

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

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

Wednesday, December 6, 2023

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

ProjectName: *Eel River SW Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231400*
Date Received: *08/08/23*

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	08:15	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	BRL	0.01	08/08/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/08/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.49	NA	08/21/23	IP	Calculation
Total Dissolved Solids	mg/L	110	6.0	08/08/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.014	0.005	08/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.88	0.017	08/18/23	NEC*	SM 5310 C
Boron	mg/L	0.011	0.010	08/31/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.49	0.2	08/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	52	3.0	08/08/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.063	0.005	08/14/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	08/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.39	0.017	08/18/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.04	NA	12/01/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	12/01/23	KB	Calculation
Chlorophyll-a	*	6.33	*	08/09/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	08/10/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.49	NA	08/22/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.28	NA	12/01/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.21	NA	08/21/23	IP	Calculation
E coli	CFU/100ml	15	5	08/08/23	GB @ 13:45	EPA 1603
Ammonia-N	mg/L	BRL	0.2	08/16/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Wednesday, December 6, 2023

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

ProjectName: Eel River SW Sampling
Comments:
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-231400
Date Received: 08/08/23

Sample Type	Sample Time	Sample Date	Comments			
S-5B A	08:15	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231401*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	08:25	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.61	0.01	08/08/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/08/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.6	NA	08/21/23	IP	Calculation
Total Dissolved Solids	mg/L	98	6.0	08/08/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.017	0.005	08/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	2.24	0.017	08/18/23	NEC*	SM 5310 C
Boron	mg/L	0.030	0.010	08/31/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.98	0.2	08/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	42	3.0	08/08/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.106	0.005	08/14/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	08/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.50	0.017	08/18/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.61	NA	12/01/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.28	NA	12/01/23	KB	Calculation
Chlorophyll-a	*	14.0	*	08/09/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.006	0.005	08/10/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.74	NA	08/22/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.70	NA	12/01/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.90	NA	08/21/23	IP	Calculation
E coli	CFU/100ml	45	5	08/08/23	GB @ 13:45	EPA 1603
Ammonia-N	mg/L	BRL	0.2	08/16/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231401*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	08:25	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231402*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	08:30	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.61	0.01	08/08/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/08/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.6	NA	08/21/23	IP	Calculation
Total Dissolved Solids	mg/L	82	6.0	08/08/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.030	0.005	08/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	2.15	0.017	08/18/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.98	0.2	08/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	41	3.0	08/08/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.119	0.005	08/14/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	08/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.52	0.017	08/18/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.61	NA	12/01/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	12/01/23	KB	Calculation
Chlorophyll-a	*	47.0	*	08/09/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.007	0.005	08/10/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.63	NA	08/22/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.77	NA	08/22/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.83	NA	08/21/23	IP	Calculation
E coli	CFU/100ml	60	5	08/08/23	GB @ 13:45	EPA 1603
Ammonia-N	mg/L	BRL	0.2	08/16/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

By: R Ronald Saari

Ronald J. Saari
Laboratory Director

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231402*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	08:30	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231403*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	08:40	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.66	0.01	08/08/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/08/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.95	NA	08/21/23	IP	Calculation
Total Dissolved Solids	mg/L	100	6.0	08/08/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.013	0.005	08/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.30	0.017	08/18/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	08/17/23	IP	SM4500-Norg B-C
Chloride	mg/L	44	3.0	08/08/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.035	0.005	08/14/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	08/17/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.918	0.017	08/18/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.66	NA	12/01/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	12/01/23	KB	Calculation
Chlorophyll-a	*	3.64	*	08/09/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.008	0.005	08/10/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.382	NA	08/22/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	08/22/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.88	NA	08/21/23	IP	Calculation
E coli	CFU/100ml	90	5	08/08/23	GB @ 13:45	EPA 1603
Ammonia-N	mg/L	BRL	0.2	08/16/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231403*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	08:40	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231401*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	08:25	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.61	0.01	08/08/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/08/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.6	NA	08/21/23	IP	Calculation
Total Dissolved Solids	mg/L	98	6.0	08/08/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.017	0.005	08/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	2.24	0.017	08/18/23	NEC*	SM 5310 C
Boron	mg/L	0.030	0.010	08/31/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.98	0.2	08/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	42	3.0	08/08/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.106	0.005	08/14/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	08/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.50	0.017	08/18/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.61	NA	12/01/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.28	NA	12/01/23	KB	Calculation
Chlorophyll-a	*	14.0	*	08/09/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.006	0.005	08/10/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.74	NA	08/22/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.70	NA	12/01/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.89	NA	08/21/23	IP	Calculation
E coli	CFU/100ml	45	5	08/08/23	GB @ 13:45	EPA 1603
Ammonia-N	mg/L	BRL	0.2	08/16/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

**see attached*

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

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231401*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-4A A	08:25	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231402*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	08:30	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.61	0.01	08/08/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/08/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.6	NA	08/21/23	IP	Calculation
Total Dissolved Solids	mg/L	82	6.0	08/08/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.030	0.005	08/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	2.15	0.017	08/18/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.98	0.2	08/16/23	IP	SM4500-Norg B-C
Chloride	mg/L	41	3.0	08/08/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.119	0.005	08/14/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	08/16/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.52	0.017	08/18/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.61	NA	12/01/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	12/01/23	KB	Calculation
Chlorophyll-a	*	47.0	*	08/09/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.007	0.005	08/10/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.63	NA	08/22/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.77	NA	08/22/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.82	NA	08/21/23	IP	Calculation
E coli	CFU/100ml	60	5	08/08/23	GB @ 13:45	EPA 1603
Ammonia-N	mg/L	BRL	0.2	08/16/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

**see attached*

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

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231402*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	08:30	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231403*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	08:40	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.66	0.01	08/08/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/08/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.95	NA	08/21/23	IP	Calculation
Total Dissolved Solids	mg/L	100	6.0	08/08/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.013	0.005	08/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.30	0.017	08/18/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	08/17/23	IP	SM4500-Norg B-C
Chloride	mg/L	44	3.0	08/08/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.035	0.005	08/14/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	08/17/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.918	0.017	08/18/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.66	NA	12/01/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	12/01/23	KB	Calculation
Chlorophyll-a	*	3.64	*	08/09/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.008	0.005	08/10/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.382	NA	08/22/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	08/22/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.87	NA	08/21/23	IP	Calculation
E coli	CFU/100ml	90	5	08/08/23	GB @ 13:45	EPA 1603
Ammonia-N	mg/L	BRL	0.2	08/16/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

**see attached*

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231403*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	08:40	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231404*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	08:55	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.60	0.01	08/08/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/08/23	KF	EPA 300.0
Total Nitrogen	mg/L	1.4	NA	08/21/23	IP	Calculation
Total Dissolved Solids	mg/L	92	6.0	08/08/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.014	0.005	08/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.46	0.017	08/18/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.84	0.2	08/17/23	IP	SM4500-Norg B-C
Chloride	mg/L	37	3.0	08/08/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.038	0.005	08/14/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	08/17/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.02	0.017	08/18/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.60	NA	12/01/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.35	NA	12/01/23	KB	Calculation
Chlorophyll-a	*	19.0	*	08/09/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	08/10/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.44	NA	08/22/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.49	NA	12/01/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.95	NA	08/21/23	IP	Calculation
E coli	CFU/100ml	5	5	08/08/23	GB @ 13:455	EPA 1603
Ammonia-N	mg/L	BRL	0.2	08/16/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

****see attached***

By: Ronald Saari
Ronald J. Saari
Laboratory Director

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231404*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-2C A	08:55	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231403*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	08:40	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	0.66	0.01	08/08/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/08/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.94	NA	08/21/23	IP	Calculation
Total Dissolved Solids	mg/L	100	6.0	08/08/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.013	0.005	08/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.30	0.017	08/18/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.28	0.2	08/17/23	IP	SM4500-Norg B-C
Chloride	mg/L	44	3.0	08/08/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.035	0.005	08/14/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	08/17/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	0.918	0.017	08/18/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	0.66	NA	12/01/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.21	NA	12/01/23	KB	Calculation
Chlorophyll-a	*	3.64	*	08/09/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.008	0.005	08/10/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.382	NA	08/22/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	08/22/23	RIA*	Calculation
Total Dissolved Nitrogen	mg/L	0.87	NA	08/21/23	IP	Calculation
E coli	CFU/100ml	90	5	08/08/23	GB @ 13:45	EPA 1603
Ammonia-N	mg/L	BRL	0.2	08/16/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

**see attached*

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231403*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-3A A	08:40	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231405*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-6A A	09:15	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Nitrate-N	mg/L	BRL	0.01	08/08/23	KF	EPA 300.0
Nitrite-N	mg/L	BRL	0.006	08/08/23	KF	EPA 300.0
Total Nitrogen	mg/L	0.42	NA	08/21/23	IP	Calculation
Total Dissolved Solids	mg/L	50	6.0	08/08/23	AH	SM 2540 C
Dissolved Total Phosphorous	mg/L	0.008	0.005	08/14/23	AH	SM 4500-P-B,E
Total Organic Carbon*	mg/L	1.88	0.017	08/18/23	NEC*	SM 5310 C
Boron	mg/L	BRL	0.010	08/31/23	KB	EPA 200.7
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	08/17/23	IP	SM4500-Norg B-C
Chloride	mg/L	21	3.0	08/09/23	KF	EPA 300.0
Total Phosphorous (P)	mg/L	0.027	0.005	08/14/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	08/17/23	IP	SM4500 Norg B-C
Dissolved Total Organic Carbon	mg/L	1.18	0.017	08/18/23	NEC*	EPA 415.1
Dissolved Inorganic Nitrogen	mg/L	<0.04	NA	12/01/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.02	NA	12/01/23	KB	Calculation
Chlorophyll-a	*	7.19	*	08/09/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	08/10/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.70	NA	09/01/23	NEC*	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	08/22/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.28	NA	12/01/23	KB	Calculation
E coli	CFU/100ml	30	5	08/08/23	GB @ 13:45	EPA 1603
Ammonia-N	mg/L	BRL	0.2	08/16/23	RIA*	10-107-06-05-J

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

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

BRL=below reportable limits

**see attached*

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

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

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

Tuesday, December 5, 2023

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

ProjectName: *Eel River SW Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231405*
Date Received: *08/08/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-6A A	09:15	08/08/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**

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

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

BRL=below reportable limits

**see attached*

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

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

MA DEP Lab. M-MA072 RI Lab. LAO00364

Client: Envirotech Laboratory, Inc.
State: Liquid

			Analytical Results									
Lab ID	**Client ID**	**Date Sampled**	**TOC mg/L**									
308297	WW-231400 Total	08/08/23	1.88									
308298	WW-231400 Dissolved	08/08/23	1.57									
308299	WW-231401 Total	08/08/23	2.24									
308300	WW-231401 Dissolved	08/08/23	1.68									
308301	WW-231402 Total	08/08/23	2.15									
308302	WW-231402 Dissolved	08/08/23	1.70									
308303	WW-231403 Total	08/08/23	1.30									
308304	WW-231403 Dissolved	08/08/23	1.10									
308305	WW-231404 Total	08/08/23	1.46									
308306	WW-231404 Dissolved	08/08/23	1.20									
308307	WW-231405A Total	08/08/23	1.88									
308308	WW-231405A Dissolved	08/08/23	1.36									
308309	WW-231405B Dissolved	08/08/23	0.182									

Analytical Methodology							
Analyte	**Method**	**Detection Limit**	**MRL**	**Units**	**Date Analyzed**	**Cert Status**	DF
TOC	Standard Methods 5310C	0.0170	0.051	mg/L	08/18/23	NA	1

Form: Mis

Electronically signed and approved by: Brian L. Bornstein Date: 08/21/23

308297-308309

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth Env.
Sampler:	Kim Tower

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

NE Chromachem
Address 6 Nichols St
Salem, MA 01970
Phone# 1-978-744-6600
Fax# 206 984 2474

Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested	
WW-231400	08/08/23	0815		X	S-5B	2VOA	H_2SO_4	Groundwater	TOC total low detection	308297
						2VOA	H_2SO_4	Groundwater	TOC dissolved	308298
WW-231401	08/08/23	0825		X	S-4A	2VOA	H_2SO_4	Groundwater	TOC total low detection	308299
						2VOA	H_2SO_4	Groundwater	TOC dissolved	308300
WW-231402	08/08/23	0830		X	S-8A	2VOA	H_2SO_4	Groundwater	TOC total low detection	308301
						2VOA	H_2SO_4	Groundwater	TOC dissolved	308302
WW-231403	08/08/23	0840		X	S-3A	2VOA	H_2SO_4	Groundwater	TOC total low detection	308303
						2VOA	H_2SO_4	Groundwater	TOC dissolved	308304
WW-231404	08/08/23	0855		X	S-2C	2VOA	H_2SO_4	Groundwater	TOC total low detection	308305
						2VOA	H_2SO_4	Groundwater	TOC dissolved	308306
WW-231405A	08/08/23	0915		X	S-6A	2VOA	H_2SO_4	Groundwater	TOC total low detection	308307
						2VOA	H_2SO_4	Groundwater	TOC dissolved	308308
WW-231405B	08/08/23	1600		X	Filtered Blank	1VOA	H_2SO_4	Groundwater	TOC dissolved	308309

Total TOC low level 0.5 mg/L
dissolved TOC low level 0.5 mg/L

Relinquished: [signature]	Date/Time 8/14/22 1400	Received: UPS
Relinquished: UPS	Date/Time 8/15/23 11:00	Received: AP

TOC dissolved samples are filtered
Contact lab with any exceeded MCL

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

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

Date Received: 8/15/2023
Date Reported: 8/18/2023
P.O. Number WW-231400-5

Work Order #: 2308-13788

Project Name: PLYMOUTH ENV.

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

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

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

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

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

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MPN	Most Probably Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2308-13788
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-231400 S-5B
Sample Type : GRAB
Sample Date / Time : 8/08/2023 @ 08:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/16/2023 7:59	VC

Sample Number: 002
Sample Description: WW-231401 A-4A
Sample Type : GRAB
Sample Date / Time : 8/08/2023 @ 08:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/16/2023 7:59	VC

Sample Number: 003
Sample Description: WW-231402 S-8A
Sample Type : GRAB
Sample Date / Time : 8/08/2023 @ 08:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/16/2023 7:59	VC

Sample Number: 004
Sample Description: WW-231403 S-3A
Sample Type : GRAB
Sample Date / Time : 8/08/2023 @ 08:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/16/2023 7:59	VC

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2308-13788
Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-231404 S-2C
Sample Type : GRAB
Sample Date / Time : 8/08/2023 @ 08:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/16/2023 7:59	VC

Sample Number: 006
Sample Description: WW-231405 S-6A
Sample Type : GRAB
Sample Date / Time : 8/08/2023 @ 09:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/16/2023 7:59	VC

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth Env.
Sampler:	KT

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

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

Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested
WW-231400	08/08/23	0815		X	S-5B	plastic	H_2SO_4	Surface water	Ammonia Low
WW-231401	08/08/23	0825		X	A-4A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-231402	08/08/23	0830		X	S-8A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-231403	08/08/23	0840		X	S-3A	plastic	H_2SO_4	Surface water	Ammonia Low
WW-231404	08/08/23	0855		X	S-2C	plastic	H_2SO_4	Surface water	Ammonia Low
WW-231405	08/08/23	0915		X	S-6A	plastic	H_2SO_4	Surface water	Ammonia Low

2308-13788

Relinquished:	Date/Time 1550 08/15/23	Received: 8/15/23 1550	Contact lab with any exceeded MCL
Relinquished:	Date/Time 8/15/23 1870	Received: 8/15/23 1830 Brandon Davis	

5.1°

ANALYTICAL REPORT

Lab Number:	L2345672
Client:	Envirotech Laboratories, Inc. 8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563
ATTN:	Ron Saari
Phone:	(800) 339-6460
Project Name:	PLYMOUTH ENVIRONMENTAL MGMT
Project Number:	Not Specified
Report Date:	08/22/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2345672
Report Date: 08/22/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2345672-01	WW-231400	WATER	Not Specified	08/08/23 08:15	08/08/23
L2345672-02	WW-231401	WATER	Not Specified	08/08/23 08:25	08/08/23
L2345672-03	WW-231402	WATER	Not Specified	08/08/23 08:30	08/08/23
L2345672-04	WW-231403	WATER	Not Specified	08/08/23 08:40	08/08/23
L2345672-05	WW-231404	WATER	Not Specified	08/08/23 08:55	08/08/23
L2345672-06	WW-231405	WATER	Not Specified	08/08/23 09:15	08/08/23

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2345672
Report Date: 08/22/23

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Chlorophyll A

WG1813632-1: A Laboratory Duplicate could not be performed due to insufficient sample volume available for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Ashaley Moynihan

Title: Technical Director/Representative

Date: 08/22/23

INORGANICS
&
MISCELLANEOUS

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2345672
Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345672-01
Client ID: WW-231400
Sample Location: Not Specified

Date Collected: 08/08/23 08:15
Date Received: 08/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	6.33		mg/m3	2.00	NA	1	08/09/23 06:55	08/09/23 14:09	121,10200H	JAI

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2345672
Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345672-02
Client ID: WW-231401
Sample Location: Not Specified

Date Collected: 08/08/23 08:25
Date Received: 08/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	14.0		mg/m3	2.00	NA	1	08/09/23 06:55	08/09/23 14:09	121,10200H	JAI

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2345672
Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345672-03
Client ID: WW-231402
Sample Location: Not Specified

Date Collected: 08/08/23 08:30
Date Received: 08/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	47.0		mg/m3	2.00	NA	1	08/09/23 06:55	08/09/23 14:09	121,10200H	JAI

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2345672
Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345672-04
Client ID: WW-231403
Sample Location: Not Specified

Date Collected: 08/08/23 08:40
Date Received: 08/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	3.64		mg/m3	2.00	NA	1	08/09/23 06:55	08/09/23 14:09	121,10200H	JAI

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2345672
Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345672-05
Client ID: WW-231404
Sample Location: Not Specified

Date Collected: 08/08/23 08:55
Date Received: 08/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	19.0		mg/m3	2.00	NA	1	08/09/23 06:55	08/09/23 14:09	121,10200H	JAI

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2345672
Report Date: 08/22/23

SAMPLE RESULTS

Lab ID: L2345672-06
Client ID: WW-231405
Sample Location: Not Specified

Date Collected: 08/08/23 09:15
Date Received: 08/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	7.19		mg/m3	2.00	NA	1	08/09/23 06:55	08/09/23 14:09	121,10200H	JAI

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2345672

Report Date: 08/22/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-06 Batch: WG1813632-1										
Chlorophyll A	ND		mg/m3	2.00	NA	1	08/09/23 06:55	08/09/23 14:09	121,10200H	JAI

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2345672-01A	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-01B	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-02A	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-02B	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-03A	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-03B	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-04A	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-04B	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-05A	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-05B	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-06A	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)
L2345672-06B	Brown Plastic 1000ml unpreserved	A	NA		3.6	Y	Absent		CHLORO-A(1)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

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

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

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

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

Terms

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

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

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

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

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

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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

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

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

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

LIMITATION OF LIABILITIES

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

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

Certification Information

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

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

L2345672

CHAIN OF CUSTODY FORM

ENVIROTECH LABS, INC.
8 Jan Sebastian Dr., Unit 12
Sandwich, MA 02563
(508)888-6460/1-800-339-6460
FAX (508)888-6446

Alpha Analytical
Address: 8 Walkup Drive
Westborough, MA 02346
Phone#: 508-898-9220
Fax #:

Proj. No.
Project Name: Plymouth Environmental Management
Sampler: KT

Lab ID #	Date	Time	Comp	Grab	Sample location	container	Pres.	Sample Type	Analysis Requested
WW-231400	08/08/23	0815		X	S-5B	P	ice	surface water	Chlorophyll-a
WW-231401	08/08/23	0825		X	S-4A	P	ice	surface water	Chlorophyll-a
WW-231402	08/08/23	0830		X	S-8A	P	ice	surface water	Chlorophyll-a
WW-231403	08/08/23	0840		X	S-3A	P	ice	surface water	Chlorophyll-a
WW-231404	08/08/23	0855		X	S-2C	P	ice	surface water	Chlorophyll-a
WW-231405	08/08/23	0915		X	S-6A	P	ice	surface water	Chlorophyll-a

Relinquished:	Date/Time	Received:	Relinquished:	Date/Time	Received:
	08/08/23 1340	ADL	TAL	8/8 17:52	
Relinquished:	Date/Time	Received:	Relinquished: 8/8/23 1752	Date/Time	Received:

5

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Eel River SW Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
W231400	8-8-23	0815	S-5B	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 15	NONE
				2	Amber plastic	Chlorophyll-a	NONE
W231401	8-8-23	0825	S-4A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 45	NONE
				2	Amber plastic	Chlorophyll-a	NONE

08/08/23
1315GB

Relinquished By: Date/Time

Received By: Date/Time: AH 8/8 10:30

S

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Eel River SW Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
W231402	8-8-23	830	S-8A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 60	NONE
				2	Amber plastic	Chlorophyll-a	NONE
W231403	8-8-23	0840	S-3A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 90	NONE
				2	Amber plastic	Chlorophyll-a	NONE

Relinquished By: Date/Time

Received By: Date/Time:

5

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Marine & Environmental Affairs Attn: Kim Tower
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Eel River SW Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
N231404	8-8-23	0855	S-2C	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 5	NONE
				2	Amber plastic	Chlorophyll-a	NONE
N231405	8-8-23	0915	S-6A	1	Plastic	TDS, Diss (TKN, /toc, TP)	NONE
				1	Plastic	TKM, Total N, Total P, TOC	NONE
				1	Plastic	Orthophosphate	NONE
				1	Plastic	NO3, NO2, Chloride	NONE
				1	Plastic	Boron	HN03
				1	Plastic	Bacteria - Eoli 30	NONE
				2	Amber plastic	Chlorophyll-a	NONE

Relinquished By: Date/Time

Received By: Date/Time:

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, August 4, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *S-10*
Project Number: *Harbor Sampling*
Sampled By: *Kim Towr*
Lab Order Number: *WW-231095*
Date Received: *06/28/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-10 A	09:31	06/28/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	0.56	0.60	07/18/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	0.56	NA	07/21/23	IP	Calculation
E-coli	CFU/100 mL	110	<1	06/28/23	WM @ 13:45	SM 9213 D
Dissolved Total Phosphorous	mg/L	0.015	0.005	07/12/23	AH	SM 4500-P-B,E
Total Phosphorous (P)	mg/L	0.041	0.005	07/12/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.42	0.20	07/18/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	<0.04	NA	08/02/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.42	NA	08/02/23	KB	Calculation
Chlorophyll-a	*	ND	*	07/02/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.012	0.005	06/29/23	AH	SM 4500-P
Particulate Organic Carbon	mg/L	<0.52	NA	08/02/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	08/02/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.42	NA	07/21/23	IP	Calculation
Nitrate-N	mg/L	<0.01	0.02	06/29/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	<0.01	0.010	06/28/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	BRL	0.2	07/11/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	0.52	0.50	07/05/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	BRL	0.50	07/05/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, August 4, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *S-7*
Project Number: *Harbor Sampling*
Sampled By: *Kim Towr*
Lab Order Number: *WW-231096*
Date Received: *06/28/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-7 A	09:42	06/23/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	0.70	0.60	07/18/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	0.70	NA	07/21/23	IP	Calculation
E-coli	CFU/100 mL	>400	<1	06/28/23	WM @ 13:45	SM 9213 D
Dissolved Total Phosphorous	mg/L	0.031	0.005	07/12/23	AH	SM 4500-P-B,E
Total Phosphorous (P)	mg/L	0.055	0.005	07/12/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.56	0.20	07/18/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	<0.04	NA	08/02/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.56	NA	08/02/23	KB	Calculation
Chlorophyll-a	*	2.48	*	07/02/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.021	0.005	06/29/23	AH	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	08/02/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	08/02/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.56	NA	07/21/23	IP	Calculation
Nitrate-N	mg/L	<0.01	0.02	06/29/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	<0.01	0.010	06/28/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	BRL	0.2	07/11/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	0.54	0.50	07/05/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	0.64	0.50	07/05/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Friday, August 4, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *S-8A*
Project Number: *Harbor Sampling*
Sampled By: *Kim Tower*
Lab Order Number: *WW-231097*
Date Received: *06/28/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-8A A	09:42	06/28/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	0.63	0.60	07/18/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	0.63	NA	07/21/23	IP	Calculation
E-coli	CFU/100 mL	>400	<1	06/28/23	WM @ 13:45	SM 9213 D
Dissolved Total Phosphorous	mg/L	0.031	0.005	07/12/23	AH	SM 4500-P-B,E
Total Phosphorous (P)	mg/L	0.053	0.005	07/12/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	07/18/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	<0.04	NA	08/02/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.35	NA	08/02/23	KB	Calculation
Chlorophyll-a	*	2.14	*	07/02/23	RIA*	*
Ortho Phosphorous (P)	mg/L	0.019	0.005	06/29/23	AH	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	08/02/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.28	NA	08/02/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.35	NA	07/21/23	IP	Calculation
Nitrate-N	mg/L	<0.01	0.02	06/29/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	<0.01	0.010	06/28/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	BRL	0.2	07/11/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	0.53	0.50	07/05/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	0.58	0.50	07/05/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 6/29/2023
Date Reported: 7/12/2023
P.O. Number WW-231095-97B

Work Order #: 2306-10697

Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2306-10697
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-231095 S-10 AT 2-4 HST
Sample Type : GRAB
Sample Date / Time : 6/28/2023 @ 09:31

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	7/11/2023	9:59	VC
TOC Low Level	0.52	0.50	mg/L	SM5310C 21 ed.	7/5/2023	17:56	BES
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	7/5/2023	17:56	BES

Sample Number: 002
Sample Description: WW-231096 S-7 AT 2-4 HST
Sample Type : GRAB
Sample Date / Time : 6/28/2023 @ 09:42

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	7/11/2023	13:53	KPG
TOC Low Level	0.54	0.50	mg/L	SM5310C 21 ed.	7/5/2023	17:56	BES
DOC	0.64	0.50	mg/L	SM5310C 21 ed.	7/5/2023	17:56	BES

Sample Number: 003
Sample Description: WW-231097A S-8A AT 2-4 HST
Sample Type : GRAB
Sample Date / Time : 6/28/2023 @ 09:42

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	7/11/2023	13:53	KPG
TOC Low Level	0.53	0.50	mg/L	SM5310C 21 ed.	7/5/2023	17:56	BES
DOC	0.58	0.50	mg/L	SM5310C 21 ed.	7/5/2023	17:56	BES

Sample Number: 004
Sample Description: WW-231097B FILTER BLANK
Sample Type : GRAB
Sample Date / Time : 6/28/2023 @ 16:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	7/5/2023	17:56	BES

ANALYTICAL REPORT

Lab Number:	L2337003
Client:	Envirotech Laboratories, Inc. 8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563
ATTN:	Ron Saari
Phone:	(800) 339-6460
Project Name:	PLYMOUTH ENVIRONMENTAL MGMT
Project Number:	Not Specified
Report Date:	07/13/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2337003
Report Date: 07/13/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2337003-01	WW-231095	WATER	Not Specified	06/28/23 09:31	06/28/23
L2337003-02	WW-231096	WATER	Not Specified	06/28/23 09:42	06/28/23
L2337003-03	WW-231097	WATER	Not Specified	06/28/23 09:42	06/28/23

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2337003
Project Number:	Not Specified	**Report Date:**	07/13/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2337003
Project Number:	Not Specified	**Report Date:**	07/13/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Kelly O'Neill

Title: Technical Director/Representative

Date: 07/13/23

INORGANICS
&
MISCELLANEOUS

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2337003
Report Date: 07/13/23

SAMPLE RESULTS

Lab ID: L2337003-01
Client ID: WW-231095
Sample Location: Not Specified

Date Collected: 06/28/23 09:31
Date Received: 06/28/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	ND		mg/m3	2.00	NA	1	06/29/23 09:00	07/02/23 19:44	121,10200H	DRV

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2337003
Report Date: 07/13/23

SAMPLE RESULTS

Lab ID: L2337003-02
Client ID: WW-231096
Sample Location: Not Specified

Date Collected: 06/28/23 09:42
Date Received: 06/28/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	2.48		mg/m3	2.00	NA	1	06/29/23 09:00	07/02/23 19:44	121,10200H	DRV

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2337003
Report Date: 07/13/23

SAMPLE RESULTS

Lab ID: L2337003-03
Client ID: WW-231097
Sample Location: Not Specified

Date Collected: 06/28/23 09:42
Date Received: 06/28/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	2.14		mg/m3	2.00	NA	1	06/29/23 09:00	07/02/23 19:44	121,10200H	DRV

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2337003

Report Date: 07/13/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1797688-1										
Chlorophyll A	ND		mg/m3	2.00	NA	1	06/29/23 09:00	07/02/23 19:44	121,10200H	DRV

Lab Duplicate Analysis

Batch Quality Control

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2337003

Report Date: 07/13/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1797688-2 QC Sample: L2337003-03 Client ID: WW-231097						
Chlorophyll A	2.14	ND	mg/m3	NC		35

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2337003
Report Date: 07/13/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2337003-01A	Brown Plastic 1000ml unpreserved	A	NA		2.8	Y	Absent		CHLORO-A(1)
L2337003-01B	Brown Plastic 1000ml unpreserved	A	NA		2.8	Y	Absent		CHLORO-A(1)
L2337003-02A	Brown Plastic 1000ml unpreserved	A	NA		2.8	Y	Absent		CHLORO-A(1)
L2337003-02B	Brown Plastic 1000ml unpreserved	A	NA		2.8	Y	Absent		CHLORO-A(1)
L2337003-03A	Brown Plastic 1000ml unpreserved	A	NA		2.8	Y	Absent		CHLORO-A(1)
L2337003-03B	Brown Plastic 1000ml unpreserved	A	NA		2.8	Y	Absent		CHLORO-A(1)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1**: EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D.**

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan **II**, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK OF AUGUST

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
WW-231095	6/28/23	9:31	S-10 @ 2-4 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
				1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
				1	500mL Plastic	NO2, NO3	None
				1	Glass	Ortho	NONE
				1	Plastic	Bacteria e-coli 110	Sterile
				2	1 Liter Amber Plastic	Chlorophyll-a	NONE
WW-231096	6/28/23	9:42	S-7 @ 2-4 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
				1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
				1	500mL Plastic	NO2, NO3	None
				1	Glass	Ortho	NONE
				1	Plastic	Bacteria e-coli >1100	Sterile
				2	1 Liter Amber Plastic	Chlorophyll-a	NONE

06/28/23 1345 WM

NOTE: **Analysis needed for reporting in lowest detection possible**; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Received By: Date/Time: ZP 10:45 6/28/23

SCANNED AUG 03 2023

SCANNED AUG 04 2023

6/30 1100 Emailed Kim re: high e-coli on 1096 + 1097 -KB

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK OF AUGUST

WW-231097

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
6/28/23	9:42	S-8A @ 2-4 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli >400	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
			1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

NOTE: **Analysis needed for reporting in lowest detection possible**; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Received By: Date/Time:

IAP 10:45 6/28/23

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, September 6, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231310*
Date Received: *07/27/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-10 Ebb A	07:10	07/27/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	1.3	0.60	08/15/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	1.3	NA	08/21/23	IP	Calculation
E-coli	CFU/100 mL	<5	<1	07/27/23	WM @ 13:30	SM 9213 D
Dissolved Total Phosphorous	mg/L	0.027	0.005	08/01/23	AH	SM 4500-P-B,E
Total Phosphorous (P)	mg/L	0.044	0.005	08/01/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	1.2	0.20	08/15/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	0.03	NA	09/04/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	1.2	NA	09/04/23	KB	Calculation
Chlorophyll-a	*	2.73	*	07/31/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.024	0.005	07/28/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	09/04/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.10	NA	09/04/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	1.2	NA	08/21/23	IP	Calculation
Nitrate-N	mg/L	BRL	0.02	07/28/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	07/28/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	0.031	0.2	08/07/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	<0.50	0.50	08/07/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	<0.50	0.50	08/07/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Thursday, September 7, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: Harbor Sampling
Project Number:
Sampled By: Kim Tower
Lab Order Number: WW-231311
Date Received: 07/27/23

Comments:

Sample Type *	Sample Time	Sample Date	Comments			
S-7 Ebb A	07:20	07/27/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	1.2	0.60	08/15/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	1.2	NA	08/30/23	IP	Calculation
E-coli	CFU/100 mL	<5	<1	07/27/23	WM @ 13:30	SM 9213 D
Dissolved Phosphorous (P)	mg/L	0.029	0.005	08/01/23	AH	SM 4500-P
Total Phosphorous (P)	mg/L	0.051	0.005	08/01/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	1.1	0.20	08/15/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	0.05	NA	09/04/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	1.1	NA	09/04/23	KB	Calculation
Chlorophyll-a	*	ND	*	07/31/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	BRL	0.005	07/28/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	09/04/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.10	NA	09/04/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	1.1	NA	08/21/23	IP	Calculation
Nitrate-N	mg/L	BRL	0.02	07/28/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	07/28/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	0.046	0.2	08/07/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	<0.50	0.50	08/07/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	<0.50	0.50	08/07/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, September 6, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231312*
Date Received: *07/27/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-10 HST A	09:00	07/27/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	0.98	0.60	08/15/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	0.98	NA	08/21/23	IP	Calculation
E-coli	CFU/100 mL	<5	<1	07/27/23	WM @ 13:30	SM 9213 D
Dissolved Total Phosphorous	mg/L	0.026	0.005	08/01/23	AH	SM 4500-P-B,E
Total Phosphorous (P)	mg/L	0.041	0.005	08/01/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.91	0.20	08/15/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	0.02	NA	09/04/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.89	NA	09/04/23	KB	Calculation
Chlorophyll-a	*	ND	*	07/31/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.016	0.005	07/28/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	09/04/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	09/04/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.91	NA	08/21/23	IP	Calculation
Nitrate-N	mg/L	BRL	0.02	07/28/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	07/28/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	0.020	0.2	08/07/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	<0.50	0.50	08/07/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	<0.50	0.50	08/07/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, September 6, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231313*
Date Received: *07/27/23*

Sample Type	Sample Time	Sample Date	Comments			
S-7 HST A	09:10	07/27/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	1.1	0.60	08/15/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	1.1	NA	08/21/23	IP	Calculation
E-coli	CFU/100 mL	<5	<1	07/27/23	WM @ 13:30	SM 9213 D
Dissolved Total Phosphorous	mg/L	0.025	0.005	08/01/23	AH	SM 4500-P-B,E
Total Phosphorous (P)	mg/L	0.045	0.005	08/01/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	1.1	0.20	08/15/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	0.03	NA	09/04/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	1.1	NA	09/04/23	KB	Calculation
Chlorophyll-a	*	2.42	*	07/31/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.016	0.005	07/28/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	09/04/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	BRL	NA	08/21/23	IP	Calculation
Total Dissolved Nitrogen	mg/L	1.1	NA	08/21/23	IP	Calculation
Nitrate-N	mg/L	BRL	0.02	07/28/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	07/28/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	0.030	0.2	08/07/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	<0.50	0.50	08/07/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	<0.50	0.50	08/07/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, September 6, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231314*
Date Received: *07/27/23*

Sample Type	Sample Time	Sample Date	Comments			
S-8 HST A	09:15	07/27/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	0.77	0.60	08/16/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	0.77	NA	08/21/23	IP	Calculation
E-coli	CFU/100 mL	<5	<1	07/27/23	WM @ 13:30	SM 9213 D
Dissolved Total Phosphorous	mg/L	0.025	0.005	08/01/23	AH	SM 4500-P-B,E
Total Phosphorous (P)	mg/L	0.047	0.005	08/03/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.49	0.20	08/16/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	<0.02	NA	09/04/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	<0.49	NA	09/04/23	KB	Calculation
Chlorophyll-a	*	ND	*	07/31/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.016	0.005	07/28/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	09/04/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.28	NA	09/04/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.52	NA	08/21/23	IP	Calculation
Nitrate-N	mg/L	BRL	0.02	07/28/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	07/28/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	<0.020	0.2	08/07/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	<0.50	0.50	08/07/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	<0.50	0.50	08/07/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ANALYTICAL REPORT

Lab Number:	L2343347
Client:	Envirotech Laboratories, Inc. 8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563
ATTN:	Ron Saari
Phone:	(800) 339-6460
Project Name:	PLYMOUTH ENVIRONMENTAL MGMT
Project Number:	Not Specified
Report Date:	08/10/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2343347
Report Date: 08/10/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2343347-01	WW-231310	WATER	Not Specified	07/27/23 07:10	07/27/23
L2343347-02	WW-231311	WATER	Not Specified	07/27/23 07:20	07/27/23
L2343347-03	WW-231312	WATER	Not Specified	07/27/23 09:00	07/27/23
L2343347-04	WW-231313	WATER	Not Specified	07/27/23 09:10	07/27/23
L2343347-05	WW-231314	WATER	Not Specified	07/27/23 09:15	07/27/23

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2343347
Project Number:	Not Specified	**Report Date:**	08/10/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 08/10/23

INORGANICS
&
MISCELLANEOUS

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2343347
Report Date: 08/10/23

SAMPLE RESULTS

Lab ID: L2343347-01
Client ID: WW-231310
Sample Location: Not Specified

Date Collected: 07/27/23 07:10
Date Received: 07/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	2.73		mg/m3	2.00	NA	1	07/28/23 06:45	07/31/23 13:45	121,10200H	LOF

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2343347
Report Date: 08/10/23

SAMPLE RESULTS

Lab ID: L2343347-02
Client ID: WW-231311
Sample Location: Not Specified

Date Collected: 07/27/23 07:20
Date Received: 07/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	ND		mg/m3	2.00	NA	1	07/28/23 06:45	07/31/23 13:45	121,10200H	LOF

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2343347
Report Date: 08/10/23

SAMPLE RESULTS

Lab ID: L2343347-03
Client ID: WW-231312
Sample Location: Not Specified

Date Collected: 07/27/23 09:00
Date Received: 07/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	ND		mg/m3	2.00	NA	1	07/28/23 06:45	07/31/23 13:45	121,10200H	LOF

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2343347
Report Date: 08/10/23

SAMPLE RESULTS

Lab ID: L2343347-04
Client ID: WW-231313
Sample Location: Not Specified

Date Collected: 07/27/23 09:10
Date Received: 07/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	2.42		mg/m3	2.00	NA	1	07/28/23 06:45	07/31/23 13:45	121,10200H	LOF

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2343347
Report Date: 08/10/23

SAMPLE RESULTS

Lab ID: L2343347-05
Client ID: WW-231314
Sample Location: Not Specified

Date Collected: 07/27/23 09:15
Date Received: 07/27/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	ND		mg/m3	2.00	NA	1	07/28/23 06:45	07/31/23 13:45	121,10200H	LOF

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2343347

Report Date: 08/10/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-05 Batch: WG1808866-1										
Chlorophyll A	ND		mg/m3	2.00	NA	1	07/28/23 06:45	07/31/23 13:45	121,10200H	LOF

Lab Duplicate Analysis

Batch Quality Control

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2343347

Report Date: 08/10/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-05 QC Batch ID: WG1808866-2 QC Sample: L2343347-05 Client ID: WW-231314						
Chlorophyll A	ND	2.01	mg/m3	NC		35

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2343347-01A	Brown Plastic 1000ml unpreserved	A	NA		2.5	Y	Absent		CHLORO-A(1)
L2343347-01B	Brown Plastic 1000ml unpreserved	A	NA		2.5	Y	Absent		CHLORO-A(1)
L2343347-02A	Brown Plastic 1000ml unpreserved	A	NA		2.5	Y	Absent		CHLORO-A(1)
L2343347-02B	Brown Plastic 1000ml unpreserved	A	NA		2.5	Y	Absent		CHLORO-A(1)
L2343347-03A	Brown Plastic 1000ml unpreserved	A	NA		2.5	Y	Absent		CHLORO-A(1)
L2343347-03B	Brown Plastic 1000ml unpreserved	A	NA		2.5	Y	Absent		CHLORO-A(1)
L2343347-04A	Brown Plastic 1000ml unpreserved	A	NA		2.5	Y	Absent		CHLORO-A(1)
L2343347-04B	Brown Plastic 1000ml unpreserved	A	NA		2.5	Y	Absent		CHLORO-A(1)
L2343347-05A	Brown Plastic 1000ml unpreserved	A	NA		2.5	Y	Absent		CHLORO-A(1)
L2343347-05B	Brown Plastic 1000ml unpreserved	A	NA		2.5	Y	Absent		CHLORO-A(1)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
	Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2343347
Project Number:	Not Specified	**Report Date:**	08/10/23

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 8/1/2023
Date Reported: 8/8/2023
P.O. Number WW-231310-14B

Work Order #: 2308-12993
Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Jaimie Holmes

Jaimie Holmes
Laboratory Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MPN	Most Probably Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2308-12993
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-231310 S-10 EBB
Sample Type : GRAB
Sample Date / Time : 7/27/2023 @ 07:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.031	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/7/2023	9:26	VC
TOC Low Level	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG

Sample Number: 002
Sample Description: WW-231311 S-7 EBB
Sample Type : GRAB
Sample Date / Time : 7/27/2023 @ 07:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.046	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/7/2023	9:26	VC
TOC Low Level	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG

Sample Number: 003
Sample Description: WW-231312 S-10 HST
Sample Type : GRAB
Sample Date / Time : 7/27/2023 @ 09:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/7/2023	9:26	VC
TOC Low Level	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG

Sample Number: 004
Sample Description: WW-231313 S-7 HST
Sample Type : GRAB
Sample Date / Time : 7/27/2023 @ 09:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG
TOC Low Level	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG
Ammonia (as N)	0.030	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/7/2023	9:26	VC

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2308-12993
Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-231314A S-8 HST
Sample Type : GRAB
Sample Date / Time : 7/27/2023 @ 09:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG
TOC Low Level	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	8/7/2023	9:26	VC

Sample Number: 006
Sample Description: WW-231314B FILTER BLANK
Sample Type : GRAB
Sample Date / Time : 7/27/2023 @ 16:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	8/7/2023	12:25	KPG

S

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY BEGINNING OF SEPTEMBER

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative	
W1310	7-27-23	7:10	S-10 Ebb	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE	
				1	1 Liter Plastic	TKN, TN, TP, TOC	NONE	
				1	500mL Plastic	NO2, NO3	None	
				1	Glass	Ortho	NONE	
				1	Plastic	Bacteria e-coli	Sterile	<5 7/27/23 WM 1330
				2	1 Liter Amber Plastic	Chlorophyll-a	NONE	
W1311	7-27-23	7:20	S-7 Ebb	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE	
				1	1 Liter Plastic	TKN, TN, TP, TOC	NONE	
				1	500mL Plastic	NO2, NO3	None	
				1	Glass	Ortho	NONE	
				1	Plastic	Bacteria e-coli	Sterile	<5
				2	1 Liter Amber Plastic	Chlorophyll-a	NONE	

NOTE: **Analysis needed for reporting in lowest detection possible**; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Received By: Date/Time: ZP 10:00 7/27

SCANNED
SEP 06 2023

5

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY BEGINNING OF SEPTEMBER

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
W1312 7-27-23	0900	S-10 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	Sterile <5
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
W1313 7-27-23	0910	S-7 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	Sterile <5
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

NOTE: **Analysis needed for reporting in lowest detection possible**; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By:	Date/Time	Received By:	Date/Time:
KT		IP	10:00 7/27/23

5

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY BEGINNING OF SEPTEMBER

W1314

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
7-27-23	0915	S-8 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
			1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

<5

NOTE: **Analysis needed for reporting in lowest detection possible**; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Received By: Date/Time:

TP 10:00 7/27/23

CHAIN OF CUSTODY FORM

PWS:	
Project Name:	Plymouth Env.
Sampler:	KT

ENVIROTECH LABS, INC.
8 Jan Sebastian Dr., Unit 12
Sandwich, MA 02563
(508)888-6460
1-800-339-6460
FAX (508)888-6446

RI Analytical
M RI 015
Address 41 Illinois Avenue
Warwick, RI 02888
Phone# 401-737-8500
Fax# 401-738-1970

Lab ID #	Date	Time	Comp	Grab	Station location	Container	Pres.	Sample type	Analysis requested
WW-231310	07/27/23	0710		X	S-10 Ebb	P	H_2SO_4	Surface water	Total TOC low
						plastic	H_2SO_4	Surface water	Dissolved TOC low
						plastic	H_2SO_4	Surface water	Ammonia Low
WW-231311	07/27/23	0720		X	S-7 Ebb	P	H_2SO_4	Surface water	Total TOC low
						plastic	H_2SO_4	Surface water	Dissolved TOC low
						plastic	H_2SO_4	Surface water	Ammonia Low
WW-231312	07/27/23	0900		X	S-10 HST	P	H_2SO_4	Surface water	Total TOC low
						plastic	H_2SO_4	Surface water	Dissolved TOC low
						plastic	H_2SO_4	Surface water	Ammonia Low
WW-231313	07/27/23	0910			S-7 HST	P	H_2SO_4	Surface water	Total TOC low
						plastic	H_2SO_4	Surface water	Dissolved TOC low
						plastic	H_2SO_4	Surface water	Ammonia Low
WW-231314A	07/27/23	0915			S-8 HST	P	H_2SO_4	Surface water	Total TOC low
						plastic	H_2SO_4	Surface water	Dissolved TOC low
						plastic	H_2SO_4	Surface water	Ammonia Low
WW-231314B	07/27/23	1600			Filter Blank	plastic	H_2SO_4	Surface water	Dissolved TOC low

Ammonia-N low level 0.02 mg/L

Relinquished:	Date/Time 08/01/23 1102	Received: 8/1/23 1102
Relinquished:	Date/Time 8/1/23 / 1700	Received: Brandon Davis

TOC dissolved samples are filtered
Contact lab with any exceeded MCL

2308 · 12993

5/8

L2343347

CHAIN OF CUSTODY FORM

ENVIROTECH LABS, INC.
8 Jan Sebastian Dr., Unit 12
Sandwich, MA 02563
(508)888-6460/1-800-339-6460
FAX (508)888-6446

Alpha Analytical
Address: 8 Walkup Drive
Westborough, MA 02346
Phone#: 508-898-9220
Fax #:

Proj. No.
Project Name: Plymouth Environmental Management
Sampler: Kim Tower

Lab ID #	Date	Time	Comp	Grab	Sample location	container	Pres.	Sample Type	Analysis Requested
WW-231310	07/27/23	0710		X	S-10 Ebb	P	ice	Harbor water	Chlorophyll-a
WW-231311	07/27/23	0720		X	S-7 Ebb	P	ice	Harbor water	Chlorophyll-a
WW-231312	07/27/23	0900		X	S-10 HST	P	ice	Harbor water	Chlorophyll-a
WW-231313	07/27/23	0910		X	S-7 HST	P	ice	Harbor water	Chlorophyll-a
WW-231314	07/27/23	0915		X	S-8 HST	P	ice	Harbor water	Chlorophyll-a

Relinquished:	Date/Time	Received:	Relinquished:	Date/Time	Received:
[signature]	07/27/23 1315	AABD		7/27 13:45	
AABD	7/27 1800	[signature]		7/27 1800	

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, October 4, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231584*
Date Received: *08/29/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-10 Ebb A	09:15	08/29/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Nitrogen	mg/L	0.42	NA	10/04/23	KB	Calculation
Dissolved Total Phosphorous	mg/L	0.023	0.005	09/07/23	AH	SM 4500-P-B,E
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	09/07/23	IP	SM4500-Norg B-C
Ammonia-N*	mg/L	0.061	0.020	09/07/23	RIA*	SM4500 NH3 C
Total Phosphorous (P)	mg/L	0.043	0.005	09/11/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	09/07/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	0.06	NA	10/04/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.15	NA	10/04/23	KB	Calculation
Chlorophyll-a	*	6.38	*	08/30/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.011	0.005	08/29/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	<0.51	NA	10/04/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	NA	10/04/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.21	NA	10/04/23	KB	Calculation
E coli	CFU/100ml	5	5	08/29/23	GB @ 13:00	EPA 1603
Nitrate-N	mg/L	BRL	0.02	09/25/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	08/30/23	IP	SM 4500-NO2-B
Total Organic Carbon	mg/L	0.51	0.50	09/06/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	BRL	0.50	09/06/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

**see attached*

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, October 4, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231585*
Date Received: *08/29/23*

Sample Type	Sample Time	Sample Date	Comments			
S-7 Ebb A	09:30	08/29/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Total Nitrogen	mg/L	0.42	NA	10/04/23	KB	Calculation
Dissolved Total Phosphorous	mg/L	0.028	0.005	09/07/23	AH	SM 4500-P-B,E
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	09/07/23	IP	SM4500-Norg B-C
Ammonia-N*	mg/L	0.024	0.020	09/07/23	RIA*	SM4500 NH3 C
Total Phosphorous (P)	mg/L	0.053	0.005	09/11/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.28	0.20	09/07/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	0.02	NA	10/04/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.26	NA	10/04/23	KB	Calculation
Chlorophyll-a	*	11.2	*	08/30/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.010	0.005	08/29/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	<0.53	NA	10/04/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	10/04/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.28	NA	10/04/23	KB	Calculation
E coli	CFU/100ml	85	5	08/29/23	GB @ 13:00	EPA 1603
Nitrate-N	mg/L	BRL	0.02	09/25/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	08/30/23	IP	SM 4500-NO2-B
Total Organic Carbon	mg/L	0.53	0.50	09/06/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	BRL	0.50	09/06/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, October 4, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231586*
Date Received: *08/29/23*

Sample Type	*Sample Time*	*Sample Date*	*Comments*			
S-10 HST A	11:20	08/29/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***
Total Nitrogen	mg/L	0.42	NA	10/04/23	KB	Calculation
Dissolved Total Phosphorous	mg/L	0.020	0.005	09/07/23	AH	SM 4500-P-B,E
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	09/07/23	IP	SM4500-Norg B-C
Ammonia-N*	mg/L	BRL	0.020	09/07/23	RIA*	SM4500 NH3 C
Total Phosphorous (P)	mg/L	0.044	0.005	09/11/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	09/07/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	<0.040	NA	10/04/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.21	NA	10/04/23	KB	Calculation
Chlorophyll-a	*	7.35	*	08/30/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.008	0.005	08/29/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	10/04/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	NA	10/04/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.21	NA	10/04/23	KB	Calculation
E coli	CFU/100ml	10	5	08/29/23	GB @ 13:00	EPA 1603
Nitrate-N	mg/L	BRL	0.02	09/25/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	08/30/23	IP	SM 4500-NO2-B
Total Organic Carbon	mg/L	BRL	0.50	09/06/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	BRL	0.50	09/06/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, October 4, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231587*
Date Received: *08/29/23*

Sample Type	*Sample Time*	*Sample Date*	*Comments*			
S-7 HST A	11:25	08/29/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***
Total Nitrogen	mg/L	0.42	NA	10/04/23	KB	Calculation
Dissolved Total Phosphorous	mg/L	0.020	0.005	09/07/23	AH	SM 4500-P-B,E
Total Kjeldhal Nitrogen	mg/L	0.42	0.2	09/07/23	IP	SM4500-Norg B-C
Ammonia-N*	mg/L	0.020	0.020	09/07/23	RIA*	SM4500 NH3 C
Total Phosphorous (P)	mg/L	0.044	0.005	09/11/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.21	0.20	09/07/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	0.02	NA	10/04/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.19	NA	10/04/23	KB	Calculation
Chlorophyll-a	*	5.67	*	08/30/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.010	0.005	08/29/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	10/04/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.21	NA	10/04/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.21	NA	10/04/23	KB	Calculation
E coli	CFU/100ml	65	5	08/29/23	GB @ 13:00	EPA 1603
Nitrate-N	mg/L	BRL	0.02	09/25/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	08/30/23	IP	SM 4500-NO2-B
Total Organic Carbon	mg/L	BRL	0.50	09/06/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	BRL	0.50	09/06/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, October 4, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-231588*
Date Received: *08/29/23*

Sample Type	*Sample Time*	*Sample Date*	*Comments*			
S-8 A	11:30	08/29/23				
Parameters	***Units***	***Test Results***	***Reportable Limits***	***Date Analyzed***	***Analyst***	***Method***
Total Nitrogen	mg/L	0.49	NA	10/04/23	KB	Calculation
Dissolved Total Phosphorous	mg/L	0.019	0.005	09/07/23	AH	SM 4500-P-B,E
Total Kjeldhal Nitrogen	mg/L	0.49	0.2	09/07/23	IP	SM4500-Norg B-C
Ammonia-N*	mg/L	0.027	0.020	09/07/23	RIA*	SM4500 NH3 C
Total Phosphorous (P)	mg/L	0.043	0.005	09/11/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.35	0.20	09/07/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	0.03	NA	10/04/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.32	NA	10/04/23	KB	Calculation
Chlorophyll-a	*	NT**	*			*
Ortho Phosphorous (P)	mg/L	0.007	0.005	08/29/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	BRL	NA	10/04/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.14	NA	10/04/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.35	NA	10/04/23	KB	Calculation
E coli	CFU/100ml	70	5	08/29/23	GB @ 13:00	EPA 1603
Nitrate-N	mg/L	BRL	0.02	09/25/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	08/30/23	IP	SM 4500-NO2-B
Total Organic Carbon	mg/L	BRL	0.50	09/06/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	0.53	0.50	09/06/23	RIA*	SM5310C

**Not Tested, no chlorophyll-a sample bottle submitted.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 8/31/2023
Date Reported: 9/11/2023
P.O. Number WW-231584-588B

Work Order #: 2309-14843

Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Katie Amaral

Katie Amaral, Ph.D., CMQ/OE
Laboratory Director

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MPN	Most Probable Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2309-14843
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-231584 S-10 EBB
Sample Type : GRAB
Sample Date / Time : 8/29/2023 @ 09:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.061	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/7/2023	11:13	VC
TOC Low Level	0.51	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES

Sample Number: 002
Sample Description: WW-231585 S-7 EBB
Sample Type : GRAB
Sample Date / Time : 8/29/2023 @ 09:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.024	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/7/2023	11:13	VC
TOC Low Level	0.53	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES

Sample Number: 003
Sample Description: WW-231586 S-10 HST
Sample Type : GRAB
Sample Date / Time : 8/29/2023 @ 11:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/7/2023	11:13	VC
TOC Low Level	<0.50	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES

Sample Number: 004
Sample Description: WW-231587 S-7 HST
Sample Type : GRAB
Sample Date / Time : 8/29/2023 @ 11:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/7/2023	11:13	VC
TOC Low Level	<0.50	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2309-14843
Project Name: PLYMOUTH ENV.

Sample Number: 005
Sample Description: WW-231588A S-8 HST
Sample Type : GRAB
Sample Date / Time : 8/29/2023 @ 11:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.027	0.020	mg/L	SM4500NH3-B,H 18-21ed	9/7/2023	11:13	VC
TOC Low Level	<0.50	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES
DOC	0.53	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES

Total Organic Carbon - Result is less than Total Organic Carbon Dissolved, however results are within duplicate criteria of each other.

Sample Number: 006
Sample Description: WW-231588B FILTER BLANK
Sample Type : GRAB
Sample Date / Time : 8/29/2023 @ 16:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	9/6/2023	16:50	BES

ALPHA ANALYTICAL

ANALYTICAL REPORT

Lab Number:	L2350145
Client:	Envirotech Laboratories, Inc. 8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563
ATTN:	Ron Saari
Phone:	(800) 339-6460
Project Name:	PLYMOUTH ENVIRONMENTAL MGMT
Project Number:	Not Specified
Report Date:	09/12/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2350145
Report Date: 09/12/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2350145-01	WW-231584	WATER	Not Specified	08/29/23 09:15	08/29/23
L2350145-02	WW-231585	WATER	Not Specified	08/29/23 09:30	08/29/23
L2350145-03	WW-231586	WATER	Not Specified	08/29/23 11:20	08/29/23
L2350145-04	WW-231587	WATER	Not Specified	08/29/23 11:25	08/29/23
L2350145-05	WW-231588		Not Specified	08/29/23 11:30	08/29/23

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2350145
Project Number:	Not Specified	**Report Date:**	09/12/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2350145
Project Number:	Not Specified	**Report Date:**	09/12/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Sample Receipt

L2350145-05: A sample identified as "WW-231588" was listed on the Chain of Custody, but not received. This was verified by the client.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative

Date: 09/12/23

INORGANICS
&
MISCELLANEOUS

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2350145
Report Date: 09/12/23

SAMPLE RESULTS

Lab ID: L2350145-01
Client ID: WW-231584
Sample Location: Not Specified

Date Collected: 08/29/23 09:15
Date Received: 08/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	6.38		mg/m3	2.00	NA	1	08/29/23 21:49	08/30/23 20:45	121,10200H	JAI

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2350145
Report Date: 09/12/23

SAMPLE RESULTS

Lab ID: L2350145-02
Client ID: WW-231585
Sample Location: Not Specified

Date Collected: 08/29/23 09:30
Date Received: 08/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	11.2		mg/m3	2.00	NA	1	08/29/23 21:49	08/30/23 20:45	121,10200H	JAI

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2350145
Report Date: 09/12/23

SAMPLE RESULTS

Lab ID: L2350145-03
Client ID: WW-231586
Sample Location: Not Specified

Date Collected: 08/29/23 11:20
Date Received: 08/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	7.35		mg/m3	2.00	NA	1	08/29/23 21:49	08/30/23 20:45	121,10200H	JAI

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2350145
Report Date: 09/12/23

SAMPLE RESULTS

Lab ID: L2350145-04
Client ID: WW-231587
Sample Location: Not Specified

Date Collected: 08/29/23 11:25
Date Received: 08/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	5.67		mg/m3	2.00	NA	1	08/29/23 21:49	08/30/23 20:45	121,10200H	JAI

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2350145

Report Date: 09/12/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-04 Batch: WG1821701-1										
Chlorophyll A	ND		mg/m3	2.00	NA	1	08/29/23 21:49	08/30/23 20:45	121,10200H	JAI

Lab Duplicate Analysis

Batch Quality Control

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2350145

Report Date: 09/12/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1821701-2 QC Sample: L2350145-04 Client ID: WW-231587						
Chlorophyll A	5.67	5.47	mg/m3	4		35

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2350145-01A	Brown Plastic 1000ml unpreserved	A	NA		4.7	Y	Absent		CHLORO-A(1)
L2350145-01B	Brown Plastic 1000ml unpreserved	A	NA		4.7	Y	Absent		CHLORO-A(1)
L2350145-02A	Brown Plastic 1000ml unpreserved	A	NA		4.7	Y	Absent		CHLORO-A(1)
L2350145-02B	Brown Plastic 1000ml unpreserved	A	NA		4.7	Y	Absent		CHLORO-A(1)
L2350145-03A	Brown Plastic 1000ml unpreserved	A	NA		4.7	Y	Absent		CHLORO-A(1)
L2350145-03B	Brown Plastic 1000ml unpreserved	A	NA		4.7	Y	Absent		CHLORO-A(1)
L2350145-04A	Brown Plastic 1000ml unpreserved	A	NA		4.7	Y	Absent		CHLORO-A(1)
L2350145-04B	Brown Plastic 1000ml unpreserved	A	NA		4.7	Y	Absent		CHLORO-A(1)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

L2358145

CHAIN OF CUSTODY FORM

ENVIROTECH LABS, INC.
8 Jan Sebastian Dr., Unit 12
Sandwich, MA 02563
(508)888-6460/1-800-339-6460
FAX (508)888-6446

Alpha Analytical
Address: 8 Walkup Drive
Westborough, MA 02346
Phone#: 508-898-9220
Fax #:

Proj. No.
Project Name: Plymouth Environmental Management
Sampler: Kim Tower

Lab ID #	Date	Time	Comp	Grab	Sample location	container	Pres.	Sample Type	Analysis Requested
WW-231584	08/29/23	0915		X	S-10 Ebb	P	ice	Harbor water	Chlorophyll-a
WW-231585	08/29/23	0930		X	S-7 Ebb	P	ice	Harbor water	Chlorophyll-a
WW-231586	08/29/23	1120		X	S-10 HST	P	ice	Harbor water	Chlorophyll-a
WW-231587	08/29/23	1125		X	S-7 HST	P	ice	Harbor water	Chlorophyll-a
WW-231588	08/29/23	1130		X	S-8 HST - NO SAMPLE	P	ice	Harbor water	Chlorophyll-a

Relinquished:	Date/Time	Received:	Relinquished:	Date/Time	Received:
	08/29/23 1415			8/29	17:39
Relinquished:	Date/Time	Received:	Relinquished:	Date/Time	Received:

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK OF OCTOBER

NW-231584

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/29/23	0915	S-19 Ebb	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli 6	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
8/29/23	0930	S-7 Ebb	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli 85	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

1585

08/29/23
1300 EMB

NOTE: **Analysis needed for reporting in lowest detection possible**; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Received By: Date/Time: 08/29/23 1200

5

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK OF OCTOBER

	Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
WW-231586	8/29/23	1120	S-10 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
				1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
				1	500mL Plastic	NO2, NO3	None
				1	Glass	Ortho	NONE
				1	Plastic	Bacteria e-coli 10	Sterile
				2	1 Liter Amber Plastic	Chlorophyll-a	NONE
1587	8/29/23	1125	S-7 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
				1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
				1	500mL Plastic	NO2, NO3	None
				1	Glass	Ortho	NONE
				1	Plastic	Bacteria e-coli 105	Sterile
				2	1 Liter Amber Plastic	Chlorophyll-a	NONE

NOTE: **Analysis needed for reporting in lowest detection possible**; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Received By: Date/Time: 08/29/23 1200

-S

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK OF OCTOBER

WW-231588

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
8/29/23	1130	S-8 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli 70	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
			1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

No chlorophyll-a for this sample -KT

NOTE: **Analysis needed for reporting in lowest detection possible**; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By: Date/Time

Received By: Date/Time: 08/29/23 1200

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, July 5, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling* ***Comments:***
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230887*
Date Received: *05/31/23*

Sample Type	Sample Time	Sample Date	Comments			
S-10 2-4 HST A	11:00	05/31/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	0.91	0.60	06/01/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	0.94	NA	06/30/23	IP	Calculation
Dissolved Total Phosphorous	mg/L	0.025	0.005	06/06/23	AH	SM 4500-P-B,E
Total Phosphorous (P)	mg/L	0.049	0.005	06/06/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.84	0.20	06/01/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	0.03	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.84	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	2.85	*	06/01/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.011	0.005	05/31/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.020	NA	07/05/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.07	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.87	NA	06/30/23	IP	Calculation
E coli	CFU/100ml	<5	5	05/31/23	WM @ 14:35	EPA 1603
Nitrate-N	mg/L	0.03	0.02	06/01/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	06/01/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	BRL	0.2	06/13/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	0.61	0.50	06/12/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	0.59	0.50	06/12/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, July 5, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230888*
Date Received: *05/31/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-7 2-4 HST A	11:05	05/31/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	0.84	0.60	06/01/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	0.84	NA	06/30/23	IP	Calculation
Dissolved Total Phosphorous	mg/L	0.025	0.005	06/06/23	AH	SM 4500-P-B,E
Total Phosphorous (P)	mg/L	0.040	0.005	06/06/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.84	0.20	06/01/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	0.05	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.80	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	BRL	*	06/01/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.009	0.005	05/31/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.080	NA	07/05/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	ND	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.84	NA	06/30/23	IP	Calculation
E coli	CFU/100ml	5	5	05/31/23	WM @ 14:35	EPA 1603
Nitrate-N	mg/L	BRL	0.02	06/01/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	06/01/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	0.045	0.2	06/13/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	0.63	0.50	06/12/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	0.55	0.50	06/12/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ENVIROTECH LABORATORIES, INC.
MA CERT. NO.: M-MA 063

8 Jan Sebastian Drive
Sandwich, MA 02563
(508)888-6460 1-800-339-6460
FAX (508)888-6446

Wednesday, July 5, 2023

Plymouth Environmental Management
K.Towers/ 11 Lincoln St.
Plymouth, MA

ProjectName: *Harbor Sampling*
Project Number:
Sampled By: *Kim Tower*
Lab Order Number: *WW-230889*
Date Received: *05/31/23*

Comments:

Sample Type	Sample Time	Sample Date	Comments			
S-8A 2-4 HST A	11:05	05/31/23				
Parameters	**Units**	**Test Results**	**Reportable Limits**	**Date Analyzed**	**Analyst**	**Method**
Kjeldhal Nitrogen	mg/L	0.98	0.60	06/01/23	IP	SM4500-Norg B-C
Total Nitrogen	mg/L	0.70	NA	06/30/23	IP	Calculation
Dissolved Total Phosphorous	mg/L	0.024	0.005	06/06/23	AH	SM 4500-P-B,E
Total Phosphorous (P)	mg/L	0.041	0.005	06/06/23	AH	SM 4500-P
Dissolved Kjeldhal Nitrogen	mg/L	0.70	0.20	06/01/23	IP	SM4500 Norg B-C
Dissolved Inorganic Nitrogen	mg/L	<0.03	NA	07/05/23	KB	Calculation
Dissolved Organic Nitrogen	mg/L	0.70	NA	07/05/23	KB	Calculation
Chlorophyll-a	*	2.33	*	06/01/23	Alpha*	*
Ortho Phosphorous (P)	mg/L	0.009	0.005	05/31/23	IP	SM 4500-P
Particulate Organic Carbon	mg/L	0.060	NA	07/05/23	KB	SM 5310 C
Particulate Organic Nitrogen	mg/L	0.28	NA	07/05/23	KB	Calculation
Total Dissolved Nitrogen	mg/L	0.70	NA	06/30/23	IP	Calculation
E coli	CFU/100ml	<5	5	05/31/23	WM @ 14:35	EPA 1603
Nitrate-N	mg/L	BRL	0.02	06/01/23	IP	SM 4500-NO3 E
Nitrite-N	mg/L	BRL	0.010	06/01/23	IP	SM 4500-NO2-B
Ammonia-N	mg/L	BRL	0.2	06/13/23	RIA*	10-107-06-05-J
Total Organic Carbon	mg/L	0.61	0.50	06/12/23	RIA*	SM5310C
Dissolved Organic Carbon	mg/L	0.55	0.50	06/12/23	RIA*	SM5310C

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results.

We certify that the following results are true and accurate to the best of our knowledge.

BRL=below reportable limits

****see attached***

By: Ronald J. Saari

Ronald J. Saari
Laboratory Director

ANALYTICAL REPORT

Lab Number:	L2330185
Client:	Envirotech Laboratories, Inc. 8 Jan Sebastian Drive Unit 12 Sandwich, MA 02563
ATTN:	Ron Saari
Phone:	(800) 339-6460
Project Name:	PLYMOUTH ENVIRONMENTAL MGMT
Project Number:	Not Specified
Report Date:	06/13/23

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2330185
Report Date: 06/13/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2330185-01	WW-230887	WATER	Not Specified	05/31/23 11:00	05/31/23
L2330185-02	WW-230888	WATER	Not Specified	05/31/23 11:05	05/31/23
L2330185-03	WW-230889	WATER	Not Specified	05/31/23 11:05	05/31/23

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2330185
Project Number:	Not Specified	**Report Date:**	06/13/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2330185
Project Number:	Not Specified	**Report Date:**	06/13/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Tiffani Morrissey - Tiffani Morrissey

Title: Technical Director/Representative

Date: 06/13/23

INORGANICS
&
MISCELLANEOUS

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2330185
Report Date: 06/13/23

SAMPLE RESULTS

Lab ID: L2330185-01
Client ID: WW-230887
Sample Location: Not Specified

Date Collected: 05/31/23 11:00
Date Received: 05/31/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	2.85		mg/m3	2.00	NA	1	06/01/23 10:55	06/01/23 12:28	121,10200H	LOF

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2330185
Report Date: 06/13/23

SAMPLE RESULTS

Lab ID: L2330185-02
Client ID: WW-230888
Sample Location: Not Specified

Date Collected: 05/31/23 11:05
Date Received: 05/31/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	ND		mg/m3	2.00	NA	1	06/01/23 10:55	06/01/23 12:28	121,10200H	LOF

Project Name: PLYMOUTH ENVIRONMENTAL MGMT
Project Number: Not Specified

Lab Number: L2330185
Report Date: 06/13/23

SAMPLE RESULTS

Lab ID: L2330185-03
Client ID: WW-230889
Sample Location: Not Specified

Date Collected: 05/31/23 11:05
Date Received: 05/31/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Chlorophyll A	2.33		mg/m3	2.00	NA	1	06/01/23 10:55	06/01/23 12:28	121,10200H	LOF

Project Name: PLYMOUTH ENVIRONMENTAL MGMT

Project Number: Not Specified

Lab Number: L2330185

Report Date: 06/13/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1785984-1										
Chlorophyll A	ND		mg/m3	2.00	NA	1	06/01/23 10:55	06/01/23 12:28	121,10200H	LOF

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2330185-01A	Brown Plastic 1000ml unpreserved	A	NA		3.2	Y	Absent		CHLORO-A(1)
L2330185-01B	Brown Plastic 1000ml unpreserved	A	NA		3.2	Y	Absent		CHLORO-A(1)
L2330185-02A	Brown Plastic 1000ml unpreserved	A	NA		3.2	Y	Absent		CHLORO-A(1)
L2330185-02B	Brown Plastic 1000ml unpreserved	A	NA		3.2	Y	Absent		CHLORO-A(1)
L2330185-03A	Brown Plastic 1000ml unpreserved	A	NA		3.2	Y	Absent		CHLORO-A(1)
L2330185-03B	Brown Plastic 1000ml unpreserved	A	NA		3.2	Y	Absent		CHLORO-A(1)

*Values in parentheses indicate holding time in days

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Report Format: DU Report with 'J' Qualifiers

Project Name:	PLYMOUTH ENVIRONMENTAL MGMT	**Lab Number:**	L2330185
Project Number:	Not Specified	**Report Date:**	06/13/23

REFERENCES

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B**; **SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Envirotech Laboratories, Inc.
Attn: Mr. Ron Saari
8 Jan Sebastian Drive
Sandwich, MA 02563

Date Received: 6/8/2023
Date Reported: 6/15/2023
P.O. Number WW-230887-889

Work Order #: 2306-09139
Project Name: PLYMOUTH ENV.

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Envirotech Laboratories, Inc.
Work Order #: 2306-09139
Project Name: PLYMOUTH ENV.

Sample Number: 001
Sample Description: WW-230887 S-10 AT 2-4 HST
Sample Type : GRAB
Sample Date / Time : 5/31/2023 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	6/13/2023	11:17	VC
TOC Low Level	0.61	0.50	mg/L	SM5310C 21 ed.	6/12/2023	15:21	KPG
DOC	0.59	0.50	mg/L	SM5310C 21 ed.	6/12/2023	15:21	KPG

Sample Number: 002
Sample Description: WW-230888 S-7 AT 2-4 HST
Sample Type : GRAB
Sample Date / Time : 5/31/2023 @ 11:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	0.045	0.020	mg/L	SM4500NH3-B,H 18-21ed	6/13/2023	11:17	VC
TOC Low Level	0.63	0.50	mg/L	SM5310C 21 ed.	6/12/2023	15:21	KPG
DOC	0.55	0.50	mg/L	SM5310C 21 ed.	6/12/2023	15:21	KPG

Sample Number: 003
Sample Description: WW-230889A S-8A AT 2-4 HST
Sample Type : GRAB
Sample Date / Time : 5/31/2023 @ 11:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ammonia (as N)	<0.020	0.020	mg/L	SM4500NH3-B,H 18-21ed	6/13/2023	11:17	VC
TOC Low Level	0.61	0.50	mg/L	SM5310C 21 ed.	6/12/2023	15:21	KPG
DOC	0.55	0.50	mg/L	SM5310C 21 ed.	6/12/2023	15:21	KPG

Sample Number: 004
Sample Description: WW-230889B FILTER BLANK
Sample Type : GRAB
Sample Date / Time : 5/31/2023 @ 16:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
DOC	<0.50	0.50	mg/L	SM5310C 21 ed.	6/12/2023	15:21	KPG

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK OF ~~FOLLOWING MONTH~~ JULY

Water 64°F

WW-23088 87 KT 5/31/23

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
5/31/23	11:00 am	S-10 2.4 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
5/31/23	11:05 am ~~11:05 am~~	S-7 2.4 HST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

<5 1435 WM

Water 64.0°F

WW-23088

5 1455 WM

NOTE: **Analysis needed for reporting in lowest detection possible**; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By:	Date/Time	Received By:	Date/Time:
Mike Cahill		[signature]	5/31/23 1150
	5/31/23		

SCANNED JUL 05 2023

2

Chain of Custody

Laboratory:
Envirotech Laboratories, 8 Sebastian Drive, Unit 12, Sandwich Ma 02563
(508) 888-6460

Client:
Town of Plymouth - Department of Marine and Environmental Affairs
26 Court Street, Plymouth, MA 02360 /508-747-1620 x10198, ktower@plymouth-ma.gov
Project Name: **Harbor Sampling** -Plymouth MA
Sampler: Kim Tower (KT)

NEED RESULTS FOR PERMITTING DEADLINE BY END OF FIRST WEEK OF ~~FOLLOWING MONTH~~ JULY

WW-220889

Date	Time	Sample ID	# bottles	Type bottle	Analysis	Preservative
5/31/23	11:05am	S-8A 2-4' H ST	1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE
			1	1 Liter Plastic	TDS, Diss (TKN, TOC, TP)	NONE
			1	1 Liter Plastic	TKN, TN, TP, TOC	NONE
			1	500mL Plastic	NO2, NO3	None
			1	Glass	Ortho	NONE
			1	Plastic	Bacteria e-coli	Sterile
			2	1 Liter Amber Plastic	Chlorophyll-a	NONE

45 14 35 WM

NOTE: **Analysis needed for reporting in lowest detection possible**; O-Phosphate, Total Phosphate, Ammonia, Nitrate, Nitrite, Total Kjeldahl Nitrogen, Total Dissolved Nitrogen, Dissolved Inorganic Nitrogen, Dissolved Organic Nitrogen, Particulate Organic Carbon, Particulate Organic Nitrogen, Bacteria E-coli, Chlorophyll-a

Relinquished By:	Date/Time	Received By:	Date/Time:
Mike Cahill		[illegible]	5/31/23 1150
	5/31/23		

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 1/10/2023
Date Reported: 1/20/2023
P.O. Number

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Paul Perrotti
President

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 001
Sample Description: 475 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	6.8	1.0	mg/l	SM2320B 18-21ed	1/11/2023	16:50	JMF
Orthophosphate	<0.020	0.020	mg/l	SM 4500 P E-2011	1/11/2023	22:46	GR
Total Phosphorus (as P)	0.018	0.010	mg/L	SM4500P-B,E-2011	1/17/2023	12:00	JCH
Nitrite (as N)	<0.050	0.050	mg/l	EPA 300.0	1/12/2023	5:40	GR
Nitrate (as N)	3.7	0.050	mg/l	EPA 300.0	1/12/2023	5:40	GR
Chloride	240	1.0	mg/l	EPA 300.0	1/12/2023	5:40	GR
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	1/17/2023	8:50	KLS
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Chloroform	2.2	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 001
Sample Description: 475 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 10:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Acetone	<10	10	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	5:43	SGM
Bromochloromethane	<1.0	1.0	ug/l	EPA 624.1	1/13/2023	5:43	SGM
Surrogates			RANGE	EPA 624.1	1/13/2023	5:43	SGM
Dibromofluoromethane	99		60-140%	EPA 624.1	1/13/2023	5:43	SGM
Toluene-D8	102		60-140%	EPA 624.1	1/13/2023	5:43	SGM
4-Bromofluorobenzene	101		60-140%	EPA 624.1	1/13/2023	5:43	SGM
Total Metals							
Boron	0.054	0.010	mg/L	EPA 200.7	1/12/2023	17:31	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	1/12/2023	17:31	KK
Sodium	110	0.050	mg/L	EPA 200.7	1/12/2023	17:31	KK
ICP Digestion				EPA 200.7	1/11/2023	16:38	KK

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 002
Sample Description: IS WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 12:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	5.9	1.0	mg/l	SM2320B 18-21ed	1/11/2023	16:50	JMF
Orthophosphate	<0.020	0.020	mg/l	SM 4500 P E-2011	1/11/2023	22:46	GR
Total Phosphorus (as P)	0.037	0.010	mg/L	SM4500P-B,E-2011	1/17/2023	17:45	ZAC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	1/12/2023	9:54	GR
Nitrate (as N)	0.92	0.050	mg/L	EPA 300.0	1/12/2023	9:54	GR
Chloride	16	1.0	mg/L	EPA 300.0	1/12/2023	9:54	GR
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	1/17/2023	8:50	KLS
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Chloroform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 002
Sample Description: IS WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 12:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Acetone	<10	10	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:14	SGM
Bromochloromethane	<1.0	1.0	ug/l	EPA 624.1	1/13/2023	6:14	SGM
Surrogates			RANGE	EPA 624.1	1/13/2023	6:14	SGM
Dibromofluoromethane	97		60-140%	EPA 624.1	1/13/2023	6:14	SGM
Toluene-D8	98		60-140%	EPA 624.1	1/13/2023	6:14	SGM
4-Bromofluorobenzene	92		60-140%	EPA 624.1	1/13/2023	6:14	SGM
Total Metals							
Boron	0.028	0.010	mg/L	EPA 200.7	1/12/2023	17:33	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	1/12/2023	17:33	KK
Sodium	10	0.050	mg/L	EPA 200.7	1/12/2023	17:33	KK
ICP Digestion				EPA 200.7	1/11/2023	16:38	KK

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 003
Sample Description: 6D WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 09:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	7.8	1.0	mg/l	SM2320B 18-21ed	1/11/2023	16:50	JMF
Orthophosphate	<0.020	0.020	mg/l	SM 4500 P E-2011	1/11/2023	22:46	GR
Total Phosphorus (as P)	0.014	0.010	mg/L	SM4500P-B,E-2011	1/17/2023	12:00	JCH
Nitrite (as N)	<0.050	0.050	mg/l	EPA 300.0	1/12/2023	3:49	GR
Nitrate (as N)	3.5	0.050	mg/l	EPA 300.0	1/12/2023	3:49	GR
Chloride	150	1.0	mg/l	EPA 300.0	1/12/2023	3:49	GR
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	1/17/2023	8:50	KLS
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Chloroform	1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 003
Sample Description: 6D WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 09:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Acetone	<10	10	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	6:44	SGM
Bromochloromethane	<1.0	1.0	ug/l	EPA 624.1	1/13/2023	6:44	SGM
Surrogates			RANGE	EPA 624.1	1/13/2023	6:44	SGM
Dibromofluoromethane	101		60-140%	EPA 624.1	1/13/2023	6:44	SGM
Toluene-D8	97		60-140%	EPA 624.1	1/13/2023	6:44	SGM
4-Bromofluorobenzene	81		60-140%	EPA 624.1	1/13/2023	6:44	SGM
Total Metals							
Boron	0.038	0.010	mg/L	EPA 200.7	1/12/2023	17:34	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	1/12/2023	17:34	KK
Sodium	83	0.050	mg/L	EPA 200.7	1/12/2023	17:34	KK
ICP Digestion				EPA 200.7	1/11/2023	16:38	KK

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 004
Sample Description: 6S WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 09:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	13	1.0	mg/l	SM2320B 18-21ed	1/11/2023	16:50	JMF
Orthophosphate	<0.020	0.020	mg/l	SM 4500 P E-2011	1/11/2023	22:46	GR
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500P-B,E-2011	1/17/2023	12:00	JCH
Nitrite (as N)	<0.050	0.050	mg/l	EPA 300.0	1/12/2023	2:13	GR
Nitrate (as N)	2.1	0.050	mg/l	EPA 300.0	1/12/2023	2:13	GR
Chloride	21	1.0	mg/l	EPA 300.0	1/12/2023	2:13	GR
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	1/16/2023	9:15	KLS
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Chloroform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 004
Sample Description: 6S WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 09:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Acetone	<10	10	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:14	SGM
Bromochloromethane	<1.0	1.0	ug/l	EPA 624.1	1/13/2023	7:14	SGM
Surrogates			RANGE	EPA 624.1	1/13/2023	7:14	SGM
Dibromofluoromethane	98		60-140%	EPA 624.1	1/13/2023	7:14	SGM
Toluene-D8	96		60-140%	EPA 624.1	1/13/2023	7:14	SGM
4-Bromofluorobenzene	82		60-140%	EPA 624.1	1/13/2023	7:14	SGM
Total Metals							
Boron	0.025	0.010	mg/L	EPA 200.7	1/12/2023	17:36	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	1/12/2023	17:36	KK
Sodium	21	0.050	mg/L	EPA 200.7	1/12/2023	17:36	KK
ICP Digestion				EPA 200.7	1/11/2023	16:38	KK

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 005
Sample Description: A9 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 11:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	50	1.0	mg/l	SM2320B 18-21ed	1/11/2023	16:50	JMF
Orthophosphate	<0.020	0.020	mg/l	SM 4500 P E-2011	1/11/2023	22:46	GR
Total Phosphorus (as P)	0.021	0.010	mg/L	SM4500P-B,E-2011	1/17/2023	12:00	JCH
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	1/12/2023	9:23	GR
Nitrate (as N)	4.5	0.050	mg/L	EPA 300.0	1/12/2023	9:23	GR
Chloride	580	10	mg/l	EPA 300.0	1/18/2023	19:29	GR
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	1/17/2023	8:50	KLS
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Chloroform	6.1	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 005
Sample Description: A9 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 11:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Acetone	<10	10	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	7:44	SGM
Bromochloromethane	<1.0	1.0	ug/l	EPA 624.1	1/13/2023	7:44	SGM
Surrogates			RANGE	EPA 624.1	1/13/2023	7:44	SGM
Dibromofluoromethane	97		60-140%	EPA 624.1	1/13/2023	7:44	SGM
Toluene-D8	99		60-140%	EPA 624.1	1/13/2023	7:44	SGM
4-Bromofluorobenzene	82		60-140%	EPA 624.1	1/13/2023	7:44	SGM
Total Metals							
Boron	0.18	0.010	mg/L	EPA 200.7	1/12/2023	17:37	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	1/12/2023	17:37	KK
Sodium	390	1.0	mg/L	EPA 200.7	1/12/2023	18:07	KK
ICP Digestion				EPA 200.7	1/11/2023	16:38	KK

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 006
Sample Description: A8 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 11:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	110	1.0	mg/l	SM2320B 18-21ed	1/11/2023	16:50	JMF
Orthophosphate	3.1	0.020	mg/l	SM 4500 P E-2011	1/11/2023	22:46	GR
Total Phosphorus (as P)	2.9	0.010	mg/L	SM4500P-B,E-2011	1/17/2023	12:00	JCH
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	1/12/2023	8:51	GR
Nitrate (as N)	3.5	0.050	mg/L	EPA 300.0	1/12/2023	8:51	GR
Chloride	810	1.0	mg/L	EPA 300.0	1/12/2023	8:51	GR
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	1/17/2023	8:50	KLS
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Chloroform	6.4	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 006
Sample Description: A8 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 11:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Acetone	<10	10	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:15	SGM
Bromochloromethane	<1.0	1.0	ug/l	EPA 624.1	1/13/2023	8:15	SGM
Surrogates			RANGE	EPA 624.1	1/13/2023	8:15	SGM
Dibromofluoromethane	99		60-140%	EPA 624.1	1/13/2023	8:15	SGM
Toluene-D8	97		60-140%	EPA 624.1	1/13/2023	8:15	SGM
4-Bromofluorobenzene	78		60-140%	EPA 624.1	1/13/2023	8:15	SGM
Total Metals							
Boron	0.23	0.010	mg/L	EPA 200.7	1/12/2023	17:53	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	1/12/2023	17:53	KK
Sodium	483	1.0	mg/L	EPA 200.7	1/12/2023	18:09	KK
ICP Digestion				EPA 200.7	1/11/2023	16:38	KK

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Orthophosphate - Result is greater than Total Phosphorus (as P), however results are within duplicate criteria of each other.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 007
Sample Description: A10 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 12:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	13	1.0	mg/l	SM2320B 18-21ed	1/11/2023	16:50	JMF
Orthophosphate	<0.020	0.020	mg/l	SM 4500 P E-2011	1/11/2023	22:46	GR
Total Phosphorus (as P)	0.11	0.010	mg/L	SM4500P-B,E-2011	1/17/2023	17:45	ZAC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	1/12/2023	10:10	GR
Nitrate (as N)	2.5	0.050	mg/L	EPA 300.0	1/12/2023	10:10	GR
Chloride	310	10	mg/l	EPA 300.0	1/18/2023	19:14	GR
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	1/17/2023	8:50	KLS
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Chloroform	2.6	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 007
Sample Description: A10 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 12:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Acetone	<10	10	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	8:45	SGM
Bromochloromethane	<1.0	1.0	ug/l	EPA 624.1	1/13/2023	8:45	SGM
Surrogates			RANGE	EPA 624.1	1/13/2023	8:45	SGM
Dibromofluoromethane	97		60-140%	EPA 624.1	1/13/2023	8:45	SGM
Toluene-D8	98		60-140%	EPA 624.1	1/13/2023	8:45	SGM
4-Bromofluorobenzene	103		60-140%	EPA 624.1	1/13/2023	8:45	SGM
Total Metals							
Boron	0.089	0.010	mg/L	EPA 200.7	1/12/2023	17:54	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	1/12/2023	17:54	KK
Sodium	200	0.050	mg/L	EPA 200.7	1/12/2023	17:54	KK
ICP Digestion				EPA 200.7	1/11/2023	16:38	KK

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 008
Sample Description: A11 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 10:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	5.9	1.0	mg/l	SM2320B 18-21ed	1/11/2023	16:50	JMF
Orthophosphate	<0.020	0.020	mg/l	SM 4500 P E-2011	1/11/2023	22:46	GR
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500P-B,E-2011	1/17/2023	12:00	JCH
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	1/12/2023	8:03	GR
Nitrate (as N)	1.9	0.050	mg/L	EPA 300.0	1/12/2023	8:03	GR
Chloride	84	1.0	mg/L	EPA 300.0	1/12/2023	8:03	GR
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	1/17/2023	8:50	KLS
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Chloroform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 008
Sample Description: A11 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 10:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Acetone	<10	10	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:15	SGM
Bromochloromethane	<1.0	1.0	ug/l	EPA 624.1	1/13/2023	9:15	SGM
Surrogates			RANGE	EPA 624.1	1/13/2023	9:15	SGM
Dibromofluoromethane	140		60-140%	EPA 624.1	1/13/2023	9:15	SGM
Toluene-D8	94		60-140%	EPA 624.1	1/13/2023	9:15	SGM
4-Bromofluorobenzene	89		60-140%	EPA 624.1	1/13/2023	9:15	SGM
Total Metals							
Boron	0.015	0.010	mg/L	EPA 200.7	1/12/2023	17:56	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	1/12/2023	17:56	KK
Sodium	47	0.050	mg/L	EPA 200.7	1/12/2023	17:56	KK
ICP Digestion				EPA 200.7	1/11/2023	16:38	KK

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 009
Sample Description: A16 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	120	1.0	mg/l	SM2320B 18-21ed	1/11/2023	16:50	JMF
Orthophosphate	0.036	0.020	mg/l	SM 4500 P E-2011	1/11/2023	22:46	GR
Total Phosphorus (as P)	0.052	0.010	mg/L	SM4500P-B,E-2011	1/17/2023	12:00	JCH
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	1/12/2023	9:39	GR
Nitrate (as N)	3.1	0.050	mg/l	EPA 300.0	1/12/2023	9:39	GR
Chloride	820	10	mg/L	EPA 300.0	1/12/2023	9:39	GR
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	1/17/2023	8:50	KLS
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Chloroform	6.5	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Dibromochloromethane	2.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2301-00508

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 009
Sample Description: A16 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 1/10/2023 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Acetone	<10	10	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	1/13/2023	9:45	SGM
Bromochloromethane	<1.0	1.0	ug/l	EPA 624.1	1/13/2023	9:45	SGM
Surrogates			RANGE	EPA 624.1	1/13/2023	9:45	SGM
Dibromofluoromethane	100		60-140%	EPA 624.1	1/13/2023	9:45	SGM
Toluene-D8	98		60-140%	EPA 624.1	1/13/2023	9:45	SGM
4-Bromofluorobenzene	91		60-140%	EPA 624.1	1/13/2023	9:45	SGM
Total Metals							
Boron	0.23	0.010	mg/L	EPA 200.7	1/12/2023	17:57	KK
Copper	0.0053	0.0050	mg/L	EPA 200.7	1/12/2023	17:57	KK
Sodium	520	1.0	mg/L	EPA 200.7	1/12/2023	18:11	KK
ICP Digestion				EPA 200.7	1/11/2023	16:38	KK

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

RI ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
1/10/23	1000	475 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
1/10/23	1000	475 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
1/10/23	1000	475WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
1/10/23	1000	475 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
1/10/23	1000	475 WELL quarterly 250 mL	G	1P	NP	GW							X										
1/10/23	1000	475 WELL quarterly 250 mL	G	1P	NP	GW									X								
1/10/23	1000	475WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information

Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information

Project Name:	Well Quarterly main plant -----WWTP-----		
P.O. Number:		Project Number:	
Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Sampled by:		Email addresses	
Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	1/10/23	1440		1/10/23	1440
	1/10/23	1730		1/10/23	1730

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options

- MCP Standard _____
- MWRA eSMART
- State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 5.5 °C RK

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- Received on Ice | No Ice

Workorder No: 2301-00508

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

F.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-15-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
1/10/23	1210	IS WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
1/10/23	1210	IS WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
1/10/23	1210	IS WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
~~1/ /23~~																							
~~1/ /23~~																							
1/10/23	1210	IS WELL quarterly 250 mL	G	1P	NP	GW				X	X												
1/10/23	1210	IS WELL quarterly 250 mL	G	1P	NP	GW							X										
1/10/23	1210	IS WELL quarterly 250 mL	G	1P	NP	GW									X								
1/10/23	1210	IS WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information

Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information

Project Name:	Well Quarterly main plant -----WWTP-----
P.O. Number:	Project Number:
Report To:	Sean d — Cell: 774-608-1213 — Phone: 508-830-4159
Sampled by:	Email addresses
Quote No:	

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	1/10/23	1440	[signature]	1/10/23	1440
[signature]	1/10/23	1730			

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options

- MCP Standard _____
- MWRA eSMART
- State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 5.5 °C RK

Lab Use Only

- ✓ Sample Pick Up Only
- RIAL sampled; attach field hours
- ✓ Received on Ice — No Ice
- Workorder No: 2301-00508

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-17-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC		
1/10/23	0930	6D WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X															
1/10/23	0930	6D WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X				
1/10/23	0930	6D WELL quarterly VOC 40 mL thio	G	2V	T	GW																X		
1/10/23	0930	6D WELL quarterly 250 mL	G	1P	NP	GW				X	X													
1/10/23	0930	6D WELL quarterly 250 mL	G	1P	NP	GW							X											
1/10/23	0930	6D WELL quarterly 250 mL	G	1P	NP	GW									X									
1/10/23	0930	6D WELL quarterly 250 mL	G	1P	NP	GW										X								

Client Information

Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information

Project Name:	Well Quarterly main plant -----WWTP-----		
P.O. Number:		Project Number:	
Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Sampled by:		Email addresses	
Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	1/10/23	1440		1/10/23	1440
	1/10/23	1730			

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options

- MCP Standard _____
- MWRA eSMART
- State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 5.5 °C RK

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- Received on Ice | No Ice

Workorder No: 2301-00508

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-17-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
1/10/23	0915	605 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
1/10/23	0915	605 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
1/10/23	0915	605 WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
1/10/23	0915	605 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
1/10/23	0915	605 WELL quarterly 250 mL	G	1P	NP	GW							X										
1/10/23	0915	605 WELL quarterly 250 mL	G	1P	NP	GW									X								
1/10/23	0915	605 WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information

Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information

Project Name:	Well Quarterly main plant -----WWTP-----
P.O. Number:	Project Number:
Report To:	Sean d — Cell: 774-608-1213 — Phone: 508-830-4159
Sampled by:	
Quote No:	Email addresses

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	1/10/23	1440		1/10/23	1440
	1/10/23	1730			

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options

- MCP Standard _____
- MWRA eSMART
- State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 5.5 °C

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- Received on Ice — No Ice
- Workorder No: 2301-00508

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

CHAIN OF CUSTODY RECORD

F.L. ANALYTICAL
Specialists in Environmental Services

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
1/10/23	1120	A9 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
1/10/23	1120	A9 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
1/10/23	1120	A9 WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
1/10/23	1120	A9 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
1/10/23	1120	A9 WELL quarterly 250 mL	G	1P	NP	GW							X										
1/10/23	1120	A9 WELL quarterly 250 mL	G	1P	NP	GW									X								
1/10/23	1120	A9 WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information

Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information

Project Name:	Well Quarterly main plant ------WWTP------
P.O. Number:	Project Number:
Report To:	Sean d — Cell: 774-608-1213 — Phone: 508-830-4159
Sampled by:	Email addresses
Quote No:	

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[illegible]	1/10/23	1440	[illegible]	1/10/23	1440
[illegible]	1/10/23	1730			

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options

- MCP Standard ____
- MWRA eSMART
- State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com.

Temp. Upon Receipt 5.5 °C RK

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- Received on Ice — No Ice
- Workorder No: 2301-00508

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
1/10/23	11:05	A8 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
1/10/23	11:05	A8 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
1/10/23	11:05	A8 WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
1/10/23	11:05	A8 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
1/10/23	11:05	A8 WELL quarterly 250 mL	G	1P	NP	GW							X										
1/10/23	11:05	A8 WELL quarterly 250 mL	G	1P	NP	GW									X								
1/10/23	11:05	A8 WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information

Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information

Project Name:	Well Quarterly main plant -----WWTP-----
P.O. Number:	Project Number:
Report To:	Sean d — Cell: 774-608-1213 — Phone: 508-830-4159
Sampled by:	Email addresses
Quote No:	

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[illegible]	1/10/23	1440	[illegible]	1/10/23	1440
R Ol	1/10/23	1730			

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options

- MCP Standard _____
- MWRA eSMART
- State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 5.5 °C

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- Received on Ice — No Ice

Workorder No: 2301-00508

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

(79)

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-15-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
1/10/23	1225	A10 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
1/10/23	1225	A10 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
1/10/23	1225	A10 WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
1/10/23	1225	A10 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
1/10/23	1225	A10 WELL quarterly 250 mL	G	1P	NP	GW							X										
1/10/23	1225	A10 WELL quarterly 250 mL	G	1P	NP	GW									X								
1/10/23	1225	A10 WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information

Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information

Project Name:	Well Quarterly main plant -----WWTP-----
P.O. Number:	Project Number:
Report To:	Sean d — Cell: 774-608-1213 — Phone: 508-830-4159
Sampled by:	Email addresses
Quote No:	

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[illegible]	1/10/23	1440	[illegible]	1/10/23	1440
[illegible]	1/10/23	1730			

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options

- MCP Standard _____
- MWRA eSMART
- State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 5.5 °C RK

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- Received on Ice — No Ice
- Workorder No: 2301-00508

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
1/10/23	1030	All WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
1/10/23	1030	All WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
1/10/23	1030	All WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
1/10/23	1030	All WELL quarterly 250 mL	G	1P	NP	GW				X	X												
1/10/23	1030	All WELL quarterly 250 mL	G	1P	NP	GW							X										
1/10/23	1030	All WELL quarterly 250 mL	G	1P	NP	GW									X								
1/10/23	1030	All WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information

Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information

Project Name:	Well Quarterly main plant -----WWTP-----
P.O. Number:	Project Number:
Report To:	Sean d — Cell: 774-608-1213 — Phone: 508-830-4159
Sampled by:	Email addresses
Quote No:	

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	1/10/23	1440		1/10/23	1440
	1/10/23	1730			

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options

- MCP Standard _____
- MWRA eSMART
- State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 5.5 °C

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- Received on Ice — No Ice
- Workorder No: 2301-00508

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-18-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
1/10/23	1050	A16 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
1/10/23	1050	A16 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
1/10/23	1050	A16 WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
1/10/23	1050	A16 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
1/10/23	1050	A16 WELL quarterly 250 mL	G	1P	NP	GW							X										
1/10/23	1050	A16 WELL quarterly 250 mL	G	1P	NP	GW									X								
1/10/23	1050	A16 WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information

Company Name: Woodard & Curran
Address: 131 Camelot Drive
City / State / Zip: Plymouth MA 02360
Main Telephone: 508-830-4159 x207
Contact Person: Sean d

Project Information

Project Name: Well Quarterly main plant -----WWTP-----
P.O. Number:
Project Number:
Report To: Sean d
Cell: 774-608-1213
Phone: 508-830-4159
Sampled by:
Quote No:
Email addresses

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	1/10/23	1440		1/10/23	1440
	1/10/23	1730			

Turn Around Time

X Normal
X EMAIL Report
X 5-7 Business days
Rush – Date Due: ___/___/___

Reporting Options

MCP Standard _____
MWRA eSMART
State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 5.5 °C

Lab Use Only

Sample Pick Up Only
RIAL sampled; attach field hours
Received on Ice
No Ice
Workorder No: 2301-00508

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 2/16/2023
Date Reported: 2/22/2023
P.O. Number

Work Order #: 2302-02715

Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Jonathan Augusta for

Approved by:

Brent Plant
Data Reporting

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2302-02715
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 001
Sample Description: WELL A8
Sample Type : GRAB
Sample Date / Time : 2/15/2023 @ 14:15

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	2.6	0.020	mg/L	SM 4500 P E-2011	2/16/2023	23:43	GR
Total Phosphorus (as P)	3.3	0.010	mg/L	SM4500P-B,E-2011	2/20/2023	13:00	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 002
Sample Description: WELL A9
Sample Type : GRAB
Sample Date / Time : 2/15/2023 @ 12:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.031	0.020	mg/L	SM 4500 P E-2011	2/16/2023	23:43	GR
Total Phosphorus (as P)	0.047	0.010	mg/L	SM4500P-B,E-2011	2/20/2023	13:00	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 003
Sample Description: WELL A10
Sample Type : GRAB
Sample Date / Time : 2/15/2023 @ 12:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	2/16/2023	23:43	GR
Total Phosphorus (as P)	0.025	0.010	mg/L	SM4500P-B,E-2011	2/20/2023	13:00	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2302-02715
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 004
Sample Description: WELL A11
Sample Type : GRAB
Sample Date / Time : 2/15/2023 @ 14:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.021	0.020	mg/L	SM 4500 P E-2011	2/16/2023	23:43	GR
Total Phosphorus (as P)	0.056	0.010	mg/L	SM4500P-B,E-2011	2/17/2023	11:30	JCH

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 005
Sample Description: WELL A16
Sample Type : GRAB
Sample Date / Time : 2/15/2023 @ 13:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.054	0.020	mg/L	SM 4500 P E-2011	2/16/2023	23:43	GR
Total Phosphorus (as P)	0.13	0.010	mg/L	SM4500P-B,E-2011	2/20/2023	13:00	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 006
Sample Description: WELL IS
Sample Type : GRAB
Sample Date / Time : 2/15/2023 @ 11:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	2/16/2023	23:43	GR
Total Phosphorus (as P)	0.038	0.010	mg/L	SM4500P-B,E-2011	2/20/2023	13:00	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2302-02715
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 007
Sample Description: WELL 475
Sample Type : GRAB
Sample Date / Time : 2/15/2023 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.036	0.020	mg/L	SM 4500 P E-2011	2/16/2023	23:43	GR
Total Phosphorus (as P)	0.059	0.010	mg/L	SM4500P-B,E-2011	2/17/2023	11:30	JCH

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 008
Sample Description: WELL 6D
Sample Type : GRAB
Sample Date / Time : 2/15/2023 @ 11:00

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.027	0.020	mg/L	SM 4500 P E-2011	2/16/2023	23:43	GR
Total Phosphorus (as P)	0.082	0.010	mg/L	SM4500P-B,E-2011	2/17/2023	11:30	JCH

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 009
Sample Description: WELL 6S
Sample Type : GRAB
Sample Date / Time : 2/15/2023 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	2/16/2023	23:43	GR
Total Phosphorus (as P)	0.034	0.010	mg/L	SM4500P-B,E-2011	2/20/2023	13:00	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
2/15/23	14:15	Well (250 mL) A8	G	1P	NP	GW		X
2/ /23		Well (250 mL) A8	G	1P	S	GW	X	
2/ /23	12:20	Well (250 mL) A9	G	1P	NP	GW		X
2/ /23		Well (250 mL) A9	G	1P	S	GW	X	
2/ /23	12:30	Well (250 mL) A10	G	1P	NP	GW		X
2/ /23		Well (250 mL) A10	G	1P	S	GW	X	
2/ /23	14:40	Well (250 mL) A11	G	1P	NP	GW		X
2/ /23		Well (250 mL) A11	G	1P	S	GW	X	
2/ /23	13:50	Well (250 mL) A16	G	1P	NP	GW		X
2/15/23		Well (250 mL) A16	G	1P	S	GW	X	

2/15/23

Client Information

Company Name: Woodard & Curran
Address: 131 Camelot Drive
City / State / Zip: Plymouth, MA 02360
Main Telephone: 508-830-4159
Contact Person: Sean Driscoll

Project Information

Project Name: Monthly Wells – Main Plant WWTP
P.O. Number:
Project Number:
Report To: Sean Driscoll
Cell: 401.578.9976
Phone:
Sampled by:
Quote No:
Email addresses: EMcNeil@woodardcurran.com; rscott@woodardcurran.com

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	2/15/23	1500	WWTP LAB	2/15/23	1500
	2/16/23	1500		2/16/23	1420
RL	2/16/23	1645		2/16/23	1645

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options

MCP Standard _____
MWRA eSMART
State Report & Upload

Project Comments

Email results to sdriscoll@woodardcurran.com; jfreemand@woodardcurran.com; kfontaine@woodardcurran.com; & rscott@woodardcurran.com

RK
5.6°C

Lab Use Only

Sample Pick Up Only
RIAL sampled; attach field hours
Received on Ice | No Ice
Workorder No: 2302 - 02715

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
2/15/23	11:46	Well (250 mL) IS	G	1P	NP	GW		X
2/15/23		Well (250 mL) IS	G	1P	S	GW	X	
2/ /23	10:40	Well (250 mL) 475	G	1P	NP	GW		X
2/ /23		Well (250 mL) 475	G	1P	S	GW	X	
2/ /23	11:00	Well (250 mL) 6D	G	1P	NP	GW		X
2/ /23		Well (250 mL) 6D	G	1P	S	GW	X	
2/15/23	11:10	Well (250 mL) 6S	G	1P	NP	GW		X
2/15/23		Well (250 mL) 6S	G	1P	S	GW	X	
~~2/15/23~~		~~Well (250 mL)~~	~~G~~	~~1P~~	~~NP~~	~~GW~~		~~X~~
		~~Well (250 mL)~~	~~G~~	~~1P~~	~~S~~	~~GW~~	~~X~~	

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly Wells – Main Plant WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	EMcNeil@woodardcurran.com rscott@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	2/15/23	1500	WWTP LAB	2/15/23	1500
	2/16/23	1500		2/16/23	1420
	2/16/23	1645		2/16/23	1645

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	Project Comments
MCP Standard _____	Email results to sdriscoll@woodardcurran.com; jfreemand@woodardcurran.com; kfontaine@woodardcurran.com; & rscott@woodardcurran.com
MWRA eSMART	
State Report & Upload	

AK
5.6°C

Lab Use Only	
	Sample Pick Up Only
	RIAL sampled; attach field hours
	Received on Ice / No Ice
Workorder No 2302-02715	

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 3/23/2023
Date Reported: 4/11/2023
P.O. Number

Work Order #: 2303-04749

Project Name: MONTHLY---- WELLS MAIN PLANT --- WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2303-04749

Project Name: MONTHLY---- WELLS MAIN PLANT --- WWTP

Sample Number: 001
Sample Description: WELL A16
Sample Type : GRAB
Sample Date / Time : 3/22/2023 @ 14:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	3/23/2023	23:16	GR
Total Phosphorus (as P)	0.068	0.010	mg/L	SM4500P-B,E-2011	3/31/2023	11:00	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 002
Sample Description: WELL 475
Sample Type : GRAB
Sample Date / Time : 3/22/2023 @ 09:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	3/23/2023	23:16	GR
Total Phosphorus (as P)	0.017	0.010	mg/L	SM4500P-B,E-2011	3/30/2023	15:10	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 003
Sample Description: WELL 6D
Sample Type : GRAB
Sample Date / Time : 3/22/2023 @ 10:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	3/23/2023	23:16	GR
Total Phosphorus (as P)	0.032	0.010	mg/L	SM4500P-B,E-2011	4/3/2023	14:28	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2303-04749
Project Name: MONTHLY---- WELLS MAIN PLANT --- WWTP

Sample Number: 004
Sample Description: WELL 6S
Sample Type : GRAB
Sample Date / Time : 3/22/2023 @ 10:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	3/23/2023	23:16	GR
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500P-B,E-2011	3/30/2023	15:10	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Co	Matrix Code M		TP -TOTAL PHOS		ORTHO – ORTHO PHOS
3/22/2023	14:30	WELL 250 mL A16	G	1P	NP	GW				X
3/22/2023	14:30	WELL 250 mL A16	G	1P	S	GW		X		
3/22/2023	09:40	WELL 250 mL 47S	G	1P	NP	GW				X
3/22/2023	09:40	WELL 250 mL 47S	G	1P	S	GW		X		
3/22/2023	10:10	WELL 250 mL 6D	G	1P	NP	GW				X
3/22/2023	10:10	WELL 250 mL 6D	G	1P	S	GW		X		
3/22/2023	10:30	WELL 250 mL 6S	G	1P	NP	GW				X
3/22/2023	10:30	WELL 250 mL 6S	G	1P	S	GW		X		
3/22/2023		WELL 250 mL	G	1P	NP	GW				X
3/22/2023		WELL 250 mL	G	1P	S	GW		X		

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly---- wells main plant --- WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	----------
City / State / Zip:	Plymouth MA 02360	Report To:	driscoll	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	3/22/2023	1518	[signature]	3/23/23	1518
[signature] RA	3/23/23	1245	[signature]	3/23/23	1245

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options
MCP Standard _____
MWRA eSMART
State Report & Upload

Project Comments

RK

Temp. Upon Receipt 5.4 °C

Lab Use Only	
✓ Sample Pick Up Only	
RIAL sampled; attach field hours	
✓ Received on Ice	No Ice
Workorder No 2303-04749	

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 3/23/2023
Date Reported: 4/13/2023
P.O. Number

Work Order #: 2303-04754

Project Name: MONTHLY ---- WELLS MAIN PLANT --- WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2303-04754

Project Name: MONTHLY ---- WELLS MAIN PLANT --- WWTP

Sample Number: 001
Sample Description: WELL 250 ML A8
Sample Type : GRAB
Sample Date / Time : 3/22/2023 @ 13:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	2.7	0.020	mg/L	SM 4500 P E-2011	3/23/2023	23:16	GR
Total Phosphorus (as P)	3.7	0.010	mg/L	SM4500P-B,E-2011	3/31/2023	11:00	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 002
Sample Description: WELL 250 ML A9
Sample Type : GRAB
Sample Date / Time : 3/22/2023 @ 11:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.028	0.020	mg/L	SM 4500 P E-2011	3/23/2023	23:16	GR
Total Phosphorus (as P)	0.020	0.010	mg/L	SM4500P-B,E-2011	4/12/2023	12:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Orthophosphate - Result is greater than Total Phosphorus (as P), however difference in results is less than the detection limit.

Sample Number: 003
Sample Description: WELL 250 ML A10
Sample Type : GRAB
Sample Date / Time : 3/22/2023 @ 11:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.021	0.020	mg/L	SM 4500 P E-2011	3/23/2023	23:16	GR
Total Phosphorus (as P)	0.041	0.010	mg/L	SM4500P-B,E-2011	3/31/2023	11:00	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2303-04754
Project Name: MONTHLY ---- WELLS MAIN PLANT --- WWTP

Sample Number: 004
Sample Description: WELL 250 ML A11
Sample Type : GRAB
Sample Date / Time : 3/22/2023 @ 14:31

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.024	0.020	mg/L	SM 4500 P E-2011	3/23/2023	23:16	GR
Total Phosphorus (as P)	0.016	0.010	mg/L	SM4500P-B,E-2011	4/12/2023	12:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Orthophosphate - Result is greater than Total Phosphorus (as P), however difference in results is less than the detection limit.

Sample Number: 005
Sample Description: WELL 250 ML IS
Sample Type : GRAB
Sample Date / Time : 3/22/2023 @ 10:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	3/23/2023	23:16	GR
Total Phosphorus (as P)	0.013	0.010	mg/L	SM4500P-B,E-2011	4/3/2023	14:28	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code	Matrix Code M		TP -TOTAL PHOS		ORTHO – ORTHO PHOS
3/22/2023	13:45	WELL 250 mL A8	G	1P	NP	GW				X
3/22/2023	13:45	WELL 250 mL A8	G	1P	S	GW		X		
3/22/2023	11:20	WELL 250 mL A9	G	1P	NP	GW				X
3/22/2023	11:20	WELL 250 mL A9	G	1P	S	GW		X		
3/22/2023	11:50	WELL 250 mL A10	G	1P	NP	GW				X
3/22/2023	11:50	WELL 250 mL A10	G	1P	S	GW		X		
3/22/2023	14:31	WELL 250 mL A11	G	1P	NP	GW				X
3/22/2023	14:31	WELL 250 mL A11	G	1P	S	GW		X		
3/22/2023	10:50	WELL 250 mL IS	G	1P	NP	GW				X
3/22/2023	10:50	WELL 250 mL IS	G	1P	S	GW		X		

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly---- wells main plant --- WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	----------
City / State / Zip:	Plymouth MA 02360	Report To:	driscoll	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	3/22/2023	1518	[signature]	3/23/23	1518
[signature]	3/23/23	1745	[signature]	3-23-23	1745

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 5.4 °C

Lab Use Only		
/	Sample Pick Up Only	
	RIAL sampled; attach field hours	
/	Received on Ice	No Ice
Workorder No: 2303-04754		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 4/19/2023
Date Reported: 5/2/2023
P.O. Number

Work Order #: 2304-06243

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Brent Plant
Data Reporting

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06243
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 001
Sample Description: A9 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 12:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	49	1.0	mg/L	SM2320B 18-21ed	4/20/2023	17:57	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	4/19/2023	23:54	JW
Total Phosphorus (as P)	0.020	0.010	mg/L	SM4500P-B,E-2011	4/27/2023	13:00	ZAC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	4/20/2023	14:19	JW
Nitrate (as N)	4.6	0.050	mg/L	EPA 300.0	4/20/2023	14:19	JW
Chloride	630	1.0	mg/L	EPA 300.0	4/20/2023	14:19	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	4/26/2023	9:30	JCH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Chloroform	6.4	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06243
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 001
Sample Description: A9 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 12:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Acetone	<10	10	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:09	GCL
Surrogates			RANGE	EPA 624.1	4/22/2023	11:09	GCL
Dibromofluoromethane	105		60-140%	EPA 624.1	4/22/2023	11:09	GCL
Toluene-D8	100		60-140%	EPA 624.1	4/22/2023	11:09	GCL
4-Bromofluorobenzene	99		60-140%	EPA 624.1	4/22/2023	11:09	GCL
Total Metals							
Boron	0.17	0.010	mg/L	EPA 200.7	4/25/2023	12:28	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	4/25/2023	12:28	KK
Sodium	380	1.0	mg/L	EPA 200.7	4/25/2023	15:39	KK
ICP Digestion				EPA 200.7	4/22/2023	11:30	GSW

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06243
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 002
Sample Description: A10 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	23	1.0	mg/L	SM2320B 18-21ed	4/20/2023	17:57	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	4/19/2023	23:54	JW
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500P-B,E-2011	4/26/2023	10:00	ZAC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	4/20/2023	14:35	JW
Nitrate (as N)	3.0	0.050	mg/L	EPA 300.0	4/20/2023	14:35	JW
Chloride	640	1.0	mg/L	EPA 300.0	4/20/2023	14:35	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	4/26/2023	9:30	JCH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Chloroform	1.4	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06243
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 002
Sample Description: A10 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 11:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Acetone	<10	10	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	11:38	GCL
Surrogates			RANGE	EPA 624.1	4/22/2023	11:38	GCL
Dibromofluoromethane	105		60-140%	EPA 624.1	4/22/2023	11:38	GCL
Toluene-D8	100		60-140%	EPA 624.1	4/22/2023	11:38	GCL
4-Bromofluorobenzene	99		60-140%	EPA 624.1	4/22/2023	11:38	GCL
Total Metals							
Boron	0.12	0.010	mg/L	EPA 200.7	4/25/2023	12:30	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	4/25/2023	12:30	KK
Sodium	350	1.0	mg/L	EPA 200.7	4/25/2023	15:41	KK
ICP Digestion				EPA 200.7	4/22/2023	11:30	GSW

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06243
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 003
Sample Description: A11 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 09:43

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	5.7	1.0	mg/L	SM2320B 18-21ed	4/20/2023	20:57	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	4/19/2023	23:54	JW
Total Phosphorus (as P)	0.014	0.010	mg/L	SM4500P-B,E-2011	4/26/2023	10:00	ZAC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	4/20/2023	14:51	JW
Nitrate (as N)	0.78	0.050	mg/L	EPA 300.0	4/20/2023	14:51	JW
Chloride	76	1.0	mg/L	EPA 300.0	4/20/2023	14:51	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	4/26/2023	9:30	JCH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Chloroform	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06243
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 003
Sample Description: A11 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 09:43

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Acetone	<10	10	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:06	GCL
Surrogates			RANGE	EPA 624.1	4/22/2023	12:06	GCL
Dibromofluoromethane	109		60-140%	EPA 624.1	4/22/2023	12:06	GCL
Toluene-D8	103		60-140%	EPA 624.1	4/22/2023	12:06	GCL
4-Bromofluorobenzene	100		60-140%	EPA 624.1	4/22/2023	12:06	GCL
Total Metals							
Boron	<0.010	0.010	mg/L	EPA 200.7	4/25/2023	12:31	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	4/25/2023	12:31	KK
Sodium	45	0.050	mg/L	EPA 200.7	4/25/2023	14:50	KK
ICP Digestion				EPA 200.7	4/22/2023	11:30	GSW

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

EPA.624.1- Acrolein above QC accpetance criteria in LCS/LCSD. Samples 1 thru 3 were nondetect for this specfic target analyte therefore, high bias can be reported.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC		
4/19/23	1205	A9 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X															
		WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X				
		WELL quarterly VOC 40 mL thio	G	2V	T	GW																X		
		WELL quarterly 250 mL	G	1P	NP	GW				X	X													
		WELL quarterly 250 mL	G	1P	NP	GW							X											
		WELL quarterly 250 mL	G	1P	NP	GW									X									
		WELL quarterly 250 mL	G	1P	NP	GW										X								

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP------		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	4/19/23	1530		4/19/23	1530
	4/19/23	1800		4/19/23	1800

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	Project Comments
MCP Standard _____	Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.
MWRA eSMART	
State Report & Upload	
	Temp. Upon Receipt 4.4 °C

Lab Use Only	
✓	Sample Pick Up Only
	RIAL sampled; attach field hours
✓	Received on Ice / No Ice
Workorder No:	23D0824-3

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

B.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC		
4/19/23	0943	All WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X															
		WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X				
		WELL quarterly VOC 40 mL thio	G	2V	T	GW																X		
		WELL quarterly 250 mL	G	1P	NP	GW				X	X													
		WELL quarterly 250 mL	G	1P	NP	GW							X											
		WELL quarterly 250 mL	G	1P	NP	GW									X									
		WELL quarterly 250 mL	G	1P	NP	GW										X								

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP------		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	4/19/23	1530		4/19/23	1530
RL	4/19/23	1800		4-19-23	1800

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	Project Comments
MCP Standard _____	Email results to ifreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.
MWRA eSMART	
State Report & Upload	
	Temp. Upon Receipt 4.4 °C

Lab Use Only	
✓	Sample Pick Up Only
	RIAL sampled; attach field hours
✓	Received on Ice / No Ice
Workorder No:	23D-0643

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
4/19/23	1110	A10 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		WELL quarterly 250 mL	G	1P	NP	GW							X										
		WELL quarterly 250 mL	G	1P	NP	GW									X								
		WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information

Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information

Project Name:	Well Quarterly main plant -----WWTP-----		
P.O. Number:		Project Number:	
Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Sampled by:		Email addresses	
Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	4/19/23	1530		4/19/23	1530
RM	4/19/23	1800		4/19/23	1800

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush -- Date Due: ___/___/___		

Reporting Options

- MCP Standard _____
- MWRA eSMART
- State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 4.4°C

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- Received on Ice | No Ice
- Workorder No: 23D0-0623

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 4/19/2023
Date Reported: 5/2/2023
P.O. Number

Work Order #: 2304-06264

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Brent Plant
Data Reporting

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06264
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 001
Sample Description: WELL 475 QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 08:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	5.7	1.0	mg/L	SM2320B 18-21ed	4/20/2023	20:57	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	4/19/2023	23:54	JW
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500P-B,E-2011	4/26/2023	10:00	ZAC
Hydrolyzable Phosphorus	<0.050	0.050	mg/L	SM 4500 P B,E-2011	5/1/2023	9:00	KLS
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	4/20/2023	13:00	JW
Nitrate (as N)	3.7	0.050	mg/L	EPA 300.0	4/20/2023	13:00	JW
Chloride	230	10	mg/L	EPA 300.0	4/22/2023	23:17	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	4/26/2023	9:30	JCH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Chloroform	2.8	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06264
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 001
Sample Description: WELL 475 QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 08:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Acetone	<10	10	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:04	GCL
Surrogates			RANGE	EPA 624.1	4/22/2023	5:04	GCL
Dibromofluoromethane	105		60-140%	EPA 624.1	4/22/2023	5:04	GCL
Toluene-D8	99		60-140%	EPA 624.1	4/22/2023	5:04	GCL
4-Bromofluorobenzene	101		60-140%	EPA 624.1	4/22/2023	5:04	GCL
Total Metals							
Boron	0.044	0.010	mg/L	EPA 200.7	4/25/2023	12:10	KK
Copper	0.016	0.0050	mg/L	EPA 200.7	4/25/2023	12:10	KK
Sodium	140	0.25	mg/L	EPA 200.7	4/25/2023	15:36	KK
ICP Digestion				EPA 200.7	4/22/2023	11:30	GSW

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06264
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 002
Sample Description: WELL 6D QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 08:48

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	5.7	1.0	mg/L	SM2320B 18-21ed	4/20/2023	20:57	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	4/19/2023	23:54	JW
Total Phosphorus (as P)	0.011	0.010	mg/L	SM4500P-B,E-2011	4/26/2023	10:00	ZAC
Hydrolyzable Phosphorus	0.15	0.050	mg/L	SM 4500 P B,E-2011	5/1/2023	9:00	KLS
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	4/20/2023	11:56	JW
Nitrate (as N)	3.3	0.050	mg/L	EPA 300.0	4/20/2023	11:56	JW
Chloride	170	1.0	mg/L	EPA 300.0	4/20/2023	11:56	JW
TKN (as N)	0.64	0.50	mg/L	SM4500NOrg-D 18-21ed	4/26/2023	9:30	JCH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Chloroform	1.5	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06264
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 002
Sample Description: WELL 6D QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 08:48

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Acetone	<10	10	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	5:32	GCL
Surrogates			RANGE	EPA 624.1	4/22/2023	5:32	GCL
Dibromofluoromethane	104		60-140%	EPA 624.1	4/22/2023	5:32	GCL
Toluene-D8	98		60-140%	EPA 624.1	4/22/2023	5:32	GCL
4-Bromofluorobenzene	99		60-140%	EPA 624.1	4/22/2023	5:32	GCL
Total Metals							
Boron	0.039	0.010	mg/L	EPA 200.7	4/25/2023	12:12	KK
Copper	0.015	0.0050	mg/L	EPA 200.7	4/25/2023	12:12	KK
Sodium	99	0.25	mg/L	EPA 200.7	4/25/2023	15:37	KK
ICP Digestion				EPA 200.7	4/22/2023	11:30	GSW

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06264
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 003
Sample Description: WELL 6S QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 09:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	12	1.0	mg/L	SM2320B 18-21ed	4/20/2023	20:57	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	4/19/2023	23:54	JW
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500P-B,E-2011	4/26/2023	10:00	ZAC
Hydrolyzable Phosphorus	0.096	0.050	mg/L	SM 4500 P B,E-2011	5/1/2023	9:00	KLS
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	4/20/2023	13:32	JW
Nitrate (as N)	2.2	0.050	mg/L	EPA 300.0	4/20/2023	13:32	JW
Chloride	29	1.0	mg/L	EPA 300.0	4/20/2023	13:32	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	4/26/2023	9:30	JCH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Chloroform	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06264
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 003
Sample Description: WELL 6S QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 09:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Acetone	<10	10	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	6:01	GCL
Surrogates			RANGE	EPA 624.1	4/22/2023	6:01	GCL
Dibromofluoromethane	104		60-140%	EPA 624.1	4/22/2023	6:01	GCL
Toluene-D8	99		60-140%	EPA 624.1	4/22/2023	6:01	GCL
4-Bromofluorobenzene	101		60-140%	EPA 624.1	4/22/2023	6:01	GCL
Total Metals							
Boron	0.014	0.010	mg/L	EPA 200.7	4/25/2023	12:14	KK
Copper	0.012	0.0050	mg/L	EPA 200.7	4/25/2023	12:14	KK
Sodium	25	0.050	mg/L	EPA 200.7	4/25/2023	14:42	KK
ICP Digestion				EPA 200.7	4/22/2023	11:30	GSW

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

EPA.624.1- Acrolein above QC accpetance criteria in LCS/LCSD. Samples 1 thru 3 were nondetect for this specfic target analyte therefore, high bias can be reported.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
4/19/23	0820	475 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		WELL quarterly 250 mL	G	1P	NP	GW							X										
		WELL quarterly 250 mL	G	1P	NP	GW									X								
		WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP-----		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	4/19/23	1530		4/19/23	1530
	4/14/23	1400		4-19-23	1800

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 4.4 °C

Lab Use Only		
	Sample Pick Up Only	
	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No:	3304-06364	

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

B.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC		
4/19/23	0848	GD WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X															
		WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X				
		WELL quarterly VOC 40 mL thio	G	2V	T	GW																X		
		WELL quarterly 250 mL	G	1P	NP	GW				X	X													
		WELL quarterly 250 mL	G	1P	NP	GW							X											
		WELL quarterly 250 mL	G	1P	NP	GW									X									
		WELL quarterly 250 mL	G	1P	NP	GW										X								

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP------		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	4/19/23	1530		4/19/23	1530
	4/19/23	1800		4-19-23	1800

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options
MCP Standard _____
MWRA eSMART
State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

NV

Temp. Upon Receipt 4.4 °C

Lab Use Only	
✓	Sample Pick Up Only
✓	RIAL sampled; attach field hours
	Received on Ice / No Ice
Workorder No:	2304-0624

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
4/19/23	0905	6S WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		WELL quarterly 250 mL	G	1P	NP	GW							X										
		WELL quarterly 250 mL	G	1P	NP	GW									X								
		WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP-----		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	4/19/23	1530		4/19/23	1530
	4/19/23	1900		4-19-23	1800

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	Project Comments
MCP Standard _____	Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.
MWRA eSMART	
State Report & Upload	

Temp. Upon Receipt 4.4 °C

Lab Use Only	
Sample Pick Up Only	
RIAL sampled; attach field hours	
Received on Ice	No Ice
Workorder No:	

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 4/19/2023
Date Reported: 5/2/2023
P.O. Number

Work Order #: 2304-06270

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Brent Plant
Data Reporting

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2304-06270

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 001
Sample Description: A16 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 10:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	120	1.0	mg/L	SM2320B 18-21ed	4/20/2023	20:57	JMF
Orthophosphate	0.048	0.020	mg/L	SM 4500 P E-2011	4/19/2023	23:54	JW
Total Phosphorus (as P)	0.060	0.010	mg/L	SM4500P-B,E-2011	4/26/2023	10:00	ZAC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	4/20/2023	15:07	JW
Nitrate (as N)	3.6	0.050	mg/L	EPA 300.0	4/20/2023	15:07	JW
Chloride	720	1.0	mg/L	EPA 300.0	4/20/2023	15:07	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	4/26/2023	9:30	JCH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Chloroform	7.3	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Bromodichloromethane	4.6	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Dibromochloromethane	8.3	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Bromoform	5.2	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06270
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 001
Sample Description: A16 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 10:05

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Acetone	<10	10	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	12:35	GCL
Surrogates			RANGE	EPA 624.1	4/22/2023	12:35	GCL
Dibromofluoromethane	109		60-140%	EPA 624.1	4/22/2023	12:35	GCL
Toluene-D8	101		60-140%	EPA 624.1	4/22/2023	12:35	GCL
4-Bromofluorobenzene	98		60-140%	EPA 624.1	4/22/2023	12:35	GCL
Total Metals							
Boron	0.26	0.010	mg/L	EPA 200.7	4/25/2023	12:37	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	4/25/2023	12:37	KK
Sodium	450	1.0	mg/L	EPA 200.7	4/25/2023	15:28	KK
ICP Digestion				EPA 200.7	4/22/2023	11:30	GSW

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06270
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 002
Sample Description: A8 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 10:34

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	140	1.0	mg/L	SM2320B 18-21ed	4/20/2023	20:57	JMF
Orthophosphate	3.1	0.020	mg/L	SM 4500 P E-2011	4/19/2023	23:54	JW
Total Phosphorus (as P)	3.3	0.010	mg/L	SM4500P-B,E-2011	4/26/2023	10:00	ZAC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	4/20/2023	15:23	JW
Nitrate (as N)	3.6	0.050	mg/L	EPA 300.0	4/20/2023	15:23	JW
Chloride	610	1.0	mg/L	EPA 300.0	4/20/2023	15:23	JW
TKN (as N)	0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	4/26/2023	9:30	JCH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Chloroform	9.8	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Bromodichloromethane	2.6	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06270
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 002
Sample Description: A8 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 10:34

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Acetone	<10	10	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:03	GCL
Surrogates			RANGE	EPA 624.1	4/22/2023	13:03	GCL
Dibromofluoromethane	108		60-140%	EPA 624.1	4/22/2023	13:03	GCL
Toluene-D8	101		60-140%	EPA 624.1	4/22/2023	13:03	GCL
4-Bromofluorobenzene	100		60-140%	EPA 624.1	4/22/2023	13:03	GCL
Total Metals							
Boron	0.20	0.010	mg/L	EPA 200.7	4/25/2023	12:39	KK
Copper	0.0070	0.0050	mg/L	EPA 200.7	4/25/2023	12:39	KK
Sodium	380	1.0	mg/L	EPA 200.7	4/25/2023	15:29	KK
ICP Digestion				EPA 200.7	4/22/2023	11:30	GSW

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06270
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 003
Sample Description: IS WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 11:38

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	2.8	1.0	mg/L	SM2320B 18-21ed	4/20/2023	20:57	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	4/19/2023	23:54	JW
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500P-B,E-2011	4/27/2023	13:00	ZAC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	4/20/2023	14:03	JW
Nitrate (as N)	0.74	0.050	mg/L	EPA 300.0	4/20/2023	14:03	JW
Chloride	15	1.0	mg/L	EPA 300.0	4/20/2023	14:03	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	4/26/2023	9:30	JCH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Chloroform	1.1	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2304-06270
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 003
Sample Description: IS WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 4/19/2023 @ 11:38

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Acetone	<10	10	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	4/22/2023	13:32	GCL
Surrogates			RANGE	EPA 624.1	4/22/2023	13:32	GCL
Dibromofluoromethane	110		60-140%	EPA 624.1	4/22/2023	13:32	GCL
Toluene-D8	102		60-140%	EPA 624.1	4/22/2023	13:32	GCL
4-Bromofluorobenzene	99		60-140%	EPA 624.1	4/22/2023	13:32	GCL
Total Metals							
Boron	<0.010	0.010	mg/L	EPA 200.7	4/25/2023	12:46	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	4/25/2023	12:46	KK
Sodium	9.3	0.050	mg/L	EPA 200.7	4/25/2023	12:46	KK
ICP Digestion				EPA 200.7	4/22/2023	11:30	GSW

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

EPA.624.1- Acrolein above QC accpetance criteria in LCS/LCSD. Samples 1 thru 3 were nondetect for this specfic target analyte therefore, high bias can be reported.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
4/19/23	1005	A16 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		WELL quarterly 250 mL	G	1P	NP	GW							X										
		WELL quarterly 250 mL	G	1P	NP	GW									X								
		WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information

Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information

Project Name:	Well Quarterly main plant -----WWTP-----		
P.O. Number:		Project Number:	
Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Sampled by:		Email addresses	
Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[illegible]	4/19/23	1530	[illegible]	4/19/23	1530
RLL	4/19/23	1800	[illegible]	4/19/23	1800

Turn Around Time

X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options

- MCP Standard _____
- MWRA eSMART
- State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

NV

Temp. Upon Receipt 4.4 °C

Lab Use Only

- Sample Pick Up Only
- RIAL sampled; attach field hours
- Received on Ice | No Ice

Workorder No: 2304-06220

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-1-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
4/19/23	1034	A8 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		WELL quarterly 250 mL	G	1P	NP	GW							X										
		WELL quarterly 250 mL	G	1P	NP	GW									X								
		WELL quarterly 250 mL	G	1P	NP	GW										X							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant ------WWTP------		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	4/19/23	1530		4/19/23	1530
	4/19/23	1800		4/19/23	1800

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.

Temp. Upon Receipt 4.4 °C

Lab Use Only		
	Sample Pick Up Only	
	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No:	23D4-06270	

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
4/19/23	1138	JS WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		WELL quarterly 250 mL	G	1P	NP	GW							X										
		WELL quarterly 250 mL	G	1P	NP	GW									X								
		WELL quarterly 250 mL	G	1P	NP	GW										X							

90 RIC

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP-----		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	4/19/23	1530		4/19/23	1530
	4/19/23	1800		4/19/23	1800

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	Project Comments
MCP Standard _____	Email results to jfreeman@woodardcurran.com; sdriscoll@woodardcurran.com,.
MWRA eSMART	
State Report & Upload	
	Temp. Upon Receipt 4.4 °C

Lab Use Only	
✓	Sample Pick Up Only
	RIAL sampled; attach field hours
	Received on Ice / No Ice
Workorder No:	23-04-0670

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 5/24/2023
Date Reported: 6/1/2023
P.O. Number

Work Order #: 2305-08269

Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2305-08269
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 001
Sample Description: WELL A8
Sample Type : GRAB
Sample Date / Time : 5/23/2023 @ 10:11

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	4.1	0.020	mg/L	SM 4500 P E-2011	5/25/2023	0:34	JW
Total Phosphorus (as P)	6.6	0.010	mg/L	SM4500P-B,E-2011	5/25/2023	9:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 002
Sample Description: WELL A9
Sample Type : GRAB
Sample Date / Time : 5/23/2023 @ 09:23

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	5/25/2023	0:34	JW
Total Phosphorus (as P)	0.026	0.010	mg/L	SM4500P-B,E-2011	5/25/2023	9:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 003
Sample Description: WELL A10
Sample Type : GRAB
Sample Date / Time : 5/23/2023 @ 10:17

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	5/25/2023	0:34	JW
Total Phosphorus (as P)	0.016	0.010	mg/L	SM4500P-B,E-2011	5/25/2023	9:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2305-08269
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 004
Sample Description: WELL A11
Sample Type : GRAB
Sample Date / Time : 5/23/2023 @ 11:34

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	5/25/2023	0:34	JW
Total Phosphorus (as P)	0.015	0.010	mg/L	SM4500P-B,E-2011	5/25/2023	9:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 005
Sample Description: WELL A16
Sample Type : GRAB
Sample Date / Time : 5/23/2023 @ 10:43

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.047	0.020	mg/L	SM 4500 P E-2011	5/25/2023	0:34	JW
Total Phosphorus (as P)	0.066	0.010	mg/L	SM4500P-B,E-2011	5/25/2023	9:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 006
Sample Description: WELL IS
Sample Type : GRAB
Sample Date / Time : 5/23/2023 @ 09:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	5/25/2023	0:34	JW
Total Phosphorus (as P)	0.016	0.010	mg/L	SM4500P-B,E-2011	5/25/2023	9:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2305-08269
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 007
Sample Description: WELL 475
Sample Type : GRAB
Sample Date / Time : 5/23/2023 @ 07:58

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	5/25/2023	0:34	JW
Total Phosphorus (as P)	0.022	0.010	mg/L	SM4500P-B,E-2011	5/25/2023	9:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 008
Sample Description: WELL 6D
Sample Type : GRAB
Sample Date / Time : 5/23/2023 @ 08:30

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	5/25/2023	0:34	JW
Total Phosphorus (as P)	0.020	0.010	mg/L	SM4500P-B,E-2011	5/25/2023	9:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 009
Sample Description: WELL 6S
Sample Type : GRAB
Sample Date / Time : 5/23/2023 @ 08:48

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	5/25/2023	0:34	JW
Total Phosphorus (as P)	0.017	0.010	mg/L	SM4500P-B,E-2011	5/25/2023	9:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
5/23/23	1011	Well (250 mL) A8	G	1P	NP	GW		X
	1011	Well (250 mL) A8	G	1P	S	GW	X	
	0923	Well (250 mL) A9	G	1P	NP	GW		X
	0923	Well (250 mL) A9	G	1P	S	GW	X	
	1017	Well (250 mL) A10	G	1P	NP	GW		X
	1017	Well (250 mL) A10	G	1P	S	GW	X	
	1134	Well (250 mL) A11	G	1P	NP	GW		X
	1134	Well (250 mL) A11	G	1P	S	GW	X	
	1043	Well (250 mL) A16	G	1P	NP	GW		X
	1043	Well (250 mL) A16	G	1P	S	GW	X	

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly Wells – Main Plant WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	EMcNeil@woodardcurran.com rscott@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	5/24/23	1500		5/24/23	1500
	5/24/23	1745	Cilimara Soares	5/24/23	17:45

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Email results to sdriscoll@woodardcurran.com; jfreemand@woodardcurran.com; kfontaine@woodardcurran.com; & rscott@woodardcurran.com

NV
5.5°C

Lab Use Only		
	Sample Pick Up Only	
	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No: 2305-08269		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 6/14/2023
Date Reported: 6/23/2023
P.O. Number

Work Order #: 2306-09483

Project Name: MONTHLY - WELLS MAIN PLANT - WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2306-09483
Project Name: MONTHLY - WELLS MAIN PLANT - WWTP

Sample Number: 001
Sample Description: WELL 475
Sample Type : GRAB
Sample Date / Time : 6/14/2023 @ 08:17

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	6/15/2023	0:45	JW
Total Phosphorus (as P)	0.27	0.010	mg/L	SM4500P-B,E-2011	6/15/2023	11:45	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 002
Sample Description: WELL 6D
Sample Type : GRAB
Sample Date / Time : 6/14/2023 @ 08:46

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	6/15/2023	0:45	JW
Total Phosphorus (as P)	0.18	0.010	mg/L	SM4500P-B,E-2011	6/15/2023	11:45	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 003
Sample Description: WELL 6S
Sample Type : GRAB
Sample Date / Time : 6/14/2023 @ 09:03

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	6/15/2023	0:45	JW
Total Phosphorus (as P)	0.028	0.010	mg/L	SM4500P-B,E-2011	6/15/2023	11:45	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2306-09483
Project Name: MONTHLY - WELLS MAIN PLANT - WWTP

Sample Number: 004
Sample Description: WELL 1S
Sample Type : GRAB
Sample Date / Time : 6/14/2023 @ 09:27

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	6/15/2023	0:45	JW
Total Phosphorus (as P)	0.017	0.010	mg/L	SM4500P-B,E-2011	6/15/2023	11:45	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 005
Sample Description: WELL A10
Sample Type : GRAB
Sample Date / Time : 6/14/2023 @ 09:56

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	6/15/2023	0:45	JW
Total Phosphorus (as P)	0.013	0.010	mg/L	SM4500P-B,E-2011	6/15/2023	11:45	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 006
Sample Description: WELL A9
Sample Type : GRAB
Sample Date / Time : 6/14/2023 @ 10:26

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	6/15/2023	0:45	JW
Total Phosphorus (as P)	0.034	0.010	mg/L	SM4500P-B,E-2011	6/15/2023	11:45	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2306-09483
Project Name: MONTHLY - WELLS MAIN PLANT - WWTP

Sample Number: 007
Sample Description: WELL A16
Sample Type : GRAB
Sample Date / Time : 6/14/2023 @ 10:55

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.040	0.020	mg/L	SM 4500 P E-2011	6/15/2023	0:45	JW
Total Phosphorus (as P)	0.069	0.010	mg/L	SM4500P-B,E-2011	6/15/2023	11:45	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 008
Sample Description: WELL A8
Sample Type : GRAB
Sample Date / Time : 6/14/2023 @ 11:21

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	3.7	0.020	mg/L	SM 4500 P E-2011	6/15/2023	0:45	JW
Total Phosphorus (as P)	3.7	0.010	mg/L	SM4500P-B,E-2011	6/16/2023	12:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 009
Sample Description: WELL A11
Sample Type : GRAB
Sample Date / Time : 6/14/2023 @ 11:44

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	6/15/2023	0:45	JW
Total Phosphorus (as P)	0.021	0.010	mg/L	SM4500P-B,E-2011	6/16/2023	12:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TP -TOTAL PHOS		ORTHO – ORTHO PHOS
6/14/23	8:17	WELL 250 mL 475	G	1P	NP	GW				X
6/14	8:17	WELL 250 mL 475	G	1P	S	GW		X		
6/14	8:46	WELL 250 mL 6D	G	1P	NP	GW				X
6/14	8:46	WELL 250 mL 6D	G	1P	S	GW		X		
6/14	9:03	WELL 250 mL 6S	G	1P	NP	GW				X
6/14	9:03	WELL 250 mL 6S	G	1P	S	GW		X		
6/14	9:27	WELL 250 mL 15	G	1P	NP	GW				X
6/14	9:27	WELL 250 mL 15	G	1P	S	GW		X		
6/14	9:56	WELL 250 mL A10	G	1P	NP	GW				X
6/14	9:56	WELL 250 mL A10	G	1P	S	GW		X		

Client Information

Company Name: Woodard & Curran
Address: 131 Camelot Drive
City / State / Zip: Plymouth MA 02360
Main Telephone: 508-830-4159 x207
Contact Person: driscoll

Project Information

Project Name: Monthly---- wells main plant --- WWTP
P.O. Number:
Project Number: ----------
Report To: driscoll
Cell: 774-608-1213
Phone: 508-830-4159
Sampled by:
Quote No:
Email addresses: sdriscoll@woodardcurran.com,

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
Shawn Mooney RCL	6/14/23	1420	R Cl	6/14/23	1420
	6/14/23	1715	Gillmag Soares	6/14/23	17:15

Turn Around Time

X Normal — X EMAIL Report
X 5-7 Business days
Rush – Date Due: ___/___/___

Reporting Options

- MCP Standard _____
- MWRA eSMART
- State Report & Upload

Project Comments

RK

Temp. Upon Receipt 5.1 °C

Lab Use Only

- ✓ Sample Pick Up Only
- RIAL sampled; attach field hours
- ✓ Received on Ice — No Ice

Workorder No: 2306-09483

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TP -TOTAL PHOS		ORTHO – ORTHO PHOS
6/14	10:26	WELL 250 mL A9	G	1P	NP	GW				X
6/14	10:26	WELL 250 mL A9	G	1P	S	GW		X		
6/14	10:55	WELL 250 mL A16	G	1P	NP	GW				X
6/14	10:55	WELL 250 mL A16	G	1P	S	GW		X		
6/14	11:21	WELL 250 mL A8	G	1P	NP	GW				X
6/14	11:21	WELL 250 mL A8	G	1P	S	GW		X		
6/14	11:44	WELL 250 mL A11	G	1P	NP	GW				X
6/14	11:44	WELL 250 mL A11	G	1P	S	GW		X		
~~6/14~~		~~WELL 250 mL~~	G	1P	NP	GW				X
~~6/14~~		~~WELL 250 mL~~	G	1P	S	GW		X		

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly---- wells main plant --- WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	----------
City / State / Zip:	Plymouth MA 02360	Report To:	driscoll	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	sdriscoll@woodardcurran.com,
Contact Person:	driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
Shawn Moody	6/14/23	~~RK~~ 1420	RK	6/14/23	1420
RK	6/14/23	1715	Ellinas Jones	6/14/23	17:15

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

RV

Temp. Upon Receipt 5.1 °C

Lab Use Only		
✓	Sample Pick Up Only	
	RIAL sampled; attach field hours	
✓	Received on Ice	No Ice
Workorder No: 2306-09483		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 7/12/2023
Date Reported: 7/24/2023
P.O. Number

Work Order #: 2307-11509

Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MPN	Most Probably Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 001
Sample Description: A8 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 13:02

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	140	1.0	mg/L	SM2320B 18-21ed	7/12/2023	20:03	JMF
Orthophosphate	3.9	0.020	mg/L	SM 4500 P E-2011	7/12/2023	23:12	JW
Total Phosphorus (as P)	3.6	0.010	mg/L	SM4500P-B,E-2011	7/14/2023	10:30	VC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	7/12/2023	21:35	JW
Nitrate (as N)	2.9	0.050	mg/L	EPA 300.0	7/12/2023	21:35	JW
Chloride	620	10	mg/L	EPA 300.0	7/15/2023	7:12	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	7/18/2023	10:00	AH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Chloroform	7.6	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 001
Sample Description: A8 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 13:02

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Acetone	<10	10	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:22	GCL
Surrogates			RANGE	EPA 624.1	7/14/2023	16:22	GCL
Dibromofluoromethane	99		60-140%	EPA 624.1	7/14/2023	16:22	GCL
Toluene-D8	99		60-140%	EPA 624.1	7/14/2023	16:22	GCL
4-Bromofluorobenzene	100		60-140%	EPA 624.1	7/14/2023	16:22	GCL
Total Metals							
Boron	0.50	0.010	mg/L	EPA 200.7	7/20/2023	13:35	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	7/19/2023	12:54	KK
Sodium	460	2.5	mg/L	EPA 200.7	7/19/2023	15:02	KK
ICP Digestion				EPA 200.7	7/18/2023	13:00	RMS

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Orthophosphate - Result is greater than Total Phosphorus (as P), however results are within duplicate criteria of each other.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 002
Sample Description: A9 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 11:49

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	54	1.0	mg/L	SM2320B 18-21ed	7/12/2023	20:03	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	7/12/2023	23:37	JW
Total Phosphorus (as P)	0.031	0.010	mg/L	SM4500P-B,E-2011	7/14/2023	10:30	VC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	7/12/2023	22:22	JW
Nitrate (as N)	4.7	0.050	mg/L	EPA 300.0	7/12/2023	22:22	JW
Chloride	550	10	mg/L	EPA 300.0	7/15/2023	7:28	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	7/18/2023	10:00	AH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Chloroform	7.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 002
Sample Description: A9 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 11:49

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Acetone	<10	10	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	16:51	GCL
Surrogates			RANGE	EPA 624.1	7/14/2023	16:51	GCL
Dibromofluoromethane	98		60-140%	EPA 624.1	7/14/2023	16:51	GCL
Toluene-D8	102		60-140%	EPA 624.1	7/14/2023	16:51	GCL
4-Bromofluorobenzene	102		60-140%	EPA 624.1	7/14/2023	16:51	GCL
Total Metals							
Boron	0.16	0.010	mg/L	EPA 200.7	7/20/2023	14:07	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	7/19/2023	13:01	KK
Sodium	400	2.5	mg/L	EPA 200.7	7/19/2023	15:15	KK
ICP Digestion				EPA 200.7	7/18/2023	13:00	RMS

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 003
Sample Description: A10 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 11:08

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	32	1.0	mg/L	SM2320B 18-21ed	7/12/2023	20:03	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	7/12/2023	23:37	JW
Total Phosphorus (as P)	0.023	0.010	mg/L	SM4500P-B,E-2011	7/14/2023	10:30	VC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	7/12/2023	22:38	JW
Nitrate (as N)	2.7	0.050	mg/L	EPA 300.0	7/12/2023	22:38	JW
Chloride	590	10	mg/L	EPA 300.0	7/15/2023	7:44	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	7/17/2023	10:30	AH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Chloroform	2.4	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 003
Sample Description: A10 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 11:08

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Acetone	<10	10	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:20	GCL
Surrogates			RANGE	EPA 624.1	7/14/2023	17:20	GCL
Dibromofluoromethane	100		60-140%	EPA 624.1	7/14/2023	17:20	GCL
Toluene-D8	99		60-140%	EPA 624.1	7/14/2023	17:20	GCL
4-Bromofluorobenzene	101		60-140%	EPA 624.1	7/14/2023	17:20	GCL
Total Metals							
Boron	0.13	0.010	mg/L	EPA 200.7	7/20/2023	14:09	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	7/19/2023	13:03	KK
Sodium	400	2.5	mg/L	EPA 200.7	7/19/2023	15:16	KK
ICP Digestion				EPA 200.7	7/18/2023	13:00	RMS

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 004
Sample Description: A11 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 13:33

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	16	1.0	mg/L	SM2320B 18-21ed	7/12/2023	20:03	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	7/12/2023	23:37	JW
Total Phosphorus (as P)	0.018	0.010	mg/L	SM4500P-B,E-2011	7/14/2023	10:30	VC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	7/12/2023	22:54	JW
Nitrate (as N)	3.6	0.050	mg/L	EPA 300.0	7/12/2023	22:54	JW
Chloride	600	10	mg/L	EPA 300.0	7/15/2023	7:59	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	7/18/2023	10:00	AH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Chloroform	7.8	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 004
Sample Description: A11 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 13:33

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Acetone	<10	10	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	17:49	GCL
Surrogates			RANGE	EPA 624.1	7/14/2023	17:49	GCL
Dibromofluoromethane	98		60-140%	EPA 624.1	7/14/2023	17:49	GCL
Toluene-D8	98		60-140%	EPA 624.1	7/14/2023	17:49	GCL
4-Bromofluorobenzene	101		60-140%	EPA 624.1	7/14/2023	17:49	GCL
Total Metals							
Boron	0.17	0.010	mg/L	EPA 200.7	7/20/2023	14:10	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	7/19/2023	13:04	KK
Sodium	430	2.5	mg/L	EPA 200.7	7/19/2023	15:18	KK
ICP Digestion				EPA 200.7	7/18/2023	13:00	RMS

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 005
Sample Description: A16 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 12:24

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	140	1.0	mg/L	SM2320B 18-21ed	7/12/2023	20:03	JMF
Orthophosphate	0.14	0.020	mg/L	SM 4500 P E-2011	7/12/2023	23:37	JW
Total Phosphorus (as P)	0.093	0.010	mg/L	SM4500P-B,E-2011	7/14/2023	10:30	VC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	7/12/2023	23:10	JW
Nitrate (as N)	2.2	0.050	mg/L	EPA 300.0	7/12/2023	23:10	JW
Chloride	470	10	mg/L	EPA 300.0	7/15/2023	8:15	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	7/18/2023	10:00	AH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Chloroform	15	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 005
Sample Description: A16 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 12:24

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Acetone	<10	10	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:18	GCL
Surrogates			RANGE	EPA 624.1	7/14/2023	18:18	GCL
Dibromofluoromethane	99		60-140%	EPA 624.1	7/14/2023	18:18	GCL
Toluene-D8	98		60-140%	EPA 624.1	7/14/2023	18:18	GCL
4-Bromofluorobenzene	101		60-140%	EPA 624.1	7/14/2023	18:18	GCL
Total Metals							
Boron	0.22	0.010	mg/L	EPA 200.7	7/20/2023	14:12	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	7/19/2023	13:06	KK
Sodium	380	2.5	mg/L	EPA 200.7	7/19/2023	15:19	KK
ICP Digestion				EPA 200.7	7/18/2023	13:00	RMS

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Orthophosphate - Result is greater than Total Phosphorus (as P), however results confirmed through reanalysis.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 006
Sample Description: 6D WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 09:21

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	7.0	1.0	mg/L	SM2320B 18-21ed	7/12/2023	20:03	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	7/12/2023	23:37	JW
Total Phosphorus (as P)	0.028	0.010	mg/L	SM4500P-B,E-2011	7/14/2023	10:30	VC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	7/12/2023	23:25	JW
Nitrate (as N)	3.3	0.050	mg/L	EPA 300.0	7/12/2023	23:25	JW
Chloride	200	1.0	mg/L	EPA 300.0	7/12/2023	23:25	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	7/17/2023	10:30	AH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Chloroform	2.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 006
Sample Description: 6D WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 09:21

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Acetone	<10	10	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	18:47	GCL
Surrogates			RANGE	EPA 624.1	7/14/2023	18:47	GCL
Dibromofluoromethane	100		60-140%	EPA 624.1	7/14/2023	18:47	GCL
Toluene-D8	98		60-140%	EPA 624.1	7/14/2023	18:47	GCL
4-Bromofluorobenzene	102		60-140%	EPA 624.1	7/14/2023	18:47	GCL
Total Metals							
Boron	0.051	0.010	mg/L	EPA 200.7	7/20/2023	14:14	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	7/19/2023	13:24	KK
Sodium	130	0.050	mg/L	EPA 200.7	7/19/2023	13:24	KK
ICP Digestion				EPA 200.7	7/18/2023	13:00	RMS

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 007
Sample Description: 6S WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 08:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	20	1.0	mg/L	SM2320B 18-21ed	7/12/2023	20:03	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	7/12/2023	23:37	JW
Total Phosphorus (as P)	0.024	0.010	mg/L	SM4500P-B,E-2011	7/14/2023	10:30	VC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	7/12/2023	23:41	JW
Nitrate (as N)	1.5	0.050	mg/L	EPA 300.0	7/12/2023	23:41	JW
Chloride	50	1.0	mg/L	EPA 300.0	7/12/2023	23:41	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	7/17/2023	10:30	AH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Chloroform	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 007
Sample Description: 6S WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 08:45

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Acetone	<10	10	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:16	GCL
Surrogates			RANGE	EPA 624.1	7/14/2023	19:16	GCL
Dibromofluoromethane	98		60-140%	EPA 624.1	7/14/2023	19:16	GCL
Toluene-D8	99		60-140%	EPA 624.1	7/14/2023	19:16	GCL
4-Bromofluorobenzene	102		60-140%	EPA 624.1	7/14/2023	19:16	GCL
Total Metals							
Boron	0.014	0.010	mg/L	EPA 200.7	7/20/2023	14:15	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	7/19/2023	13:26	KK
Sodium	30	0.050	mg/L	EPA 200.7	7/19/2023	13:26	KK
ICP Digestion				EPA 200.7	7/18/2023	13:00	RMS

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 008
Sample Description: IS WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 10:28

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	5.0	1.0	mg/L	SM2320B 18-21ed	7/12/2023	20:03	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	7/12/2023	23:37	JW
Total Phosphorus (as P)	0.010	0.010	mg/L	SM4500P-B,E-2011	7/14/2023	10:30	VC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	7/12/2023	23:57	JW
Nitrate (as N)	0.53	0.050	mg/L	EPA 300.0	7/12/2023	23:57	JW
Chloride	16	1.0	mg/L	EPA 300.0	7/12/2023	23:57	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	7/17/2023	10:30	AH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Chloroform	1.2	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 008
Sample Description: IS WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 10:28

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Acetone	<10	10	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	19:45	GCL
Surrogates			RANGE	EPA 624.1	7/14/2023	19:45	GCL
Dibromofluoromethane	98		60-140%	EPA 624.1	7/14/2023	19:45	GCL
Toluene-D8	97		60-140%	EPA 624.1	7/14/2023	19:45	GCL
4-Bromofluorobenzene	101		60-140%	EPA 624.1	7/14/2023	19:45	GCL
Total Metals							
Boron	0.010	0.010	mg/L	EPA 200.7	7/20/2023	14:17	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	7/19/2023	13:27	KK
Sodium	9.5	0.050	mg/L	EPA 200.7	7/19/2023	13:27	KK
ICP Digestion				EPA 200.7	7/18/2023	13:00	RMS

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 009
Sample Description: 475 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 09:57

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	5.0	1.0	mg/L	SM2320B 18-21ed	7/12/2023	20:03	JMF
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	7/12/2023	23:37	JW
Total Phosphorus (as P)	0.018	0.010	mg/L	SM4500P-B,E-2011	7/14/2023	10:30	VC
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	7/13/2023	0:13	JW
Nitrate (as N)	4.0	0.050	mg/L	EPA 300.0	7/13/2023	0:13	JW
Chloride	290	10	mg/L	EPA 300.0	7/15/2023	8:30	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	7/17/2023	10:30	AH
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Chloroform	4.1	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Bromoform	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Benzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Toluene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2307-11509
Project Name: WELL QUARTERLY MAIN PLANT - WWTP

Sample Number: 009
Sample Description: 475 WELL QUARTERLY
Sample Type : GRAB
Sample Date / Time : 7/11/2023 @ 09:57

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Acetone	<10	10	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Acrolein	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Styrene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	7/14/2023	20:14	GCL
Surrogates			RANGE	EPA 624.1	7/14/2023	20:14	GCL
Dibromofluoromethane	100		60-140%	EPA 624.1	7/14/2023	20:14	GCL
Toluene-D8	98		60-140%	EPA 624.1	7/14/2023	20:14	GCL
4-Bromofluorobenzene	101		60-140%	EPA 624.1	7/14/2023	20:14	GCL
Total Metals							
Boron	0.046	0.010	mg/L	EPA 200.7	7/20/2023	14:18	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	7/19/2023	13:29	KK
Sodium	170	0.050	mg/L	EPA 200.7	7/19/2023	13:29	KK
ICP Digestion				EPA 200.7	7/18/2023	13:00	RMS

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
7/1/23	13:02	A8 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		A8 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		A8 WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		A8 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		A8 WELL quarterly 250 mL	G	1P	NP	GW							X										
		A8 WELL quarterly 250 mL	G	1P	NP	GW									X								
		A8 WELL quarterly 250 mL	G	1P	NP	GW										X							
JI 7/12/23																							
per sample																							
bottle																							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	sdriscoll@woodardcurran.com,
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	7/12	1505	[signature]	7/12	1505
[signature]	7/12	1745	[signature]	7/12/23	1745

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 4.8°C 7/1

Lab Use Only		
✓	Sample Pick Up Only	
	RIAL sampled; attach field hours	
✓	Received on Ice	No Ice
Workorder No 2307-11509		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-1-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
7/11/23	11:49	A9 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		A9 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		A9 WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		A9 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		A9 WELL quarterly 250 mL	G	1P	NP	GW							X										
		A9 WELL quarterly 250 mL	G	1P	NP	GW									X								
		A9 WELL quarterly 250 mL	G	1P	NP	GW										X							
JI 7/12/23																							
Per Sample bottle																							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	sdriscoll@woodardcurran.com,
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	7/12/23	1505	[signature]	7/12/23	1505
[signature]	7/12	1745	[signature]	7/12/23	1745

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 4.8 °C

Lab Use Only		
✓	Sample Pick Up Only	
✓	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No: 2307-11509		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-1-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
7/11/23	11:08	A10 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		A10 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		A10 WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		A10 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		A10 WELL quarterly 250 mL	G	1P	NP	GW							X										
		A10 WELL quarterly 250 mL	G	1P	NP	GW									X								
		A10WELL quarterly 250 mL	G	1P	NP	GW										X							
II 7/12/23																							
per sample																							
bottle																							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	sdriscoll@woodardcurran.com,
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	7/12	1505	[signature]	7/12	1505
[signature]	7/12	1745	[signature]	7/12/23	1745

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 4.8 °C NV

Lab Use Only		
✓	Sample Pick Up Only	
	RIAL sampled; attach field hours	
✓	Received on Ice	No Ice
Workorder No: 23.07-11509		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-1-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
7/11/23	13:33	All WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		All WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		All WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		All WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		All WELL quarterly 250 mL	G	1P	NP	GW							X										
		All WELL quarterly 250 mL	G	1P	NP	GW									X								
		All WELL quarterly 250 mL	G	1P	NP	GW										X							
JC 7/13/23																							
Per sample	bottle																						
		(98) RK																					

Client Information	
Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth MA 02360
Main Telephone:	508-830-4159 x207
Contact Person:	Sean d

Project Information			
Project Name:	Well Quarterly main plant -----WWTP		
P.O. Number:		Project Number:	
Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Sampled by:		Email addresses	sdriscoll@woodardcurran.com,
Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	7/12	1505	[signature]	7/12	1505
[signature]	7/12	1745	[signature]	7/12/23	1745

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 4.8 °C RK

Lab Use Only		
	Sample Pick Up Only	
	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No: 2307-11509		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
7/1/23	12:24	A16 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		A16 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		A16 WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		A16 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		A16 WELL quarterly 250 mL	G	1P	NP	GW							X										
		A16 WELL quarterly 250 mL	G	1P	NP	GW									X								
		A16 WELL quarterly 250 mL	G	1P	NP	GW										X							
JI 7/12/23																							
Per Sample bottle																							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	sdriscoll@woodardcurran.com,
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature] [signature]	7/12/23 ~~7/12/23~~ RK	1505	[signature]	7/12/23	1505
[signature]	7/12	1745	[signature]	7/12/23	1745

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 4.8 °C

Lab Use Only		
✓	Sample Pick Up Only	
	RIAL sampled; attach field hours	
✓	Received on Ice	No Ice
Workorder No: 2307-11509		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-11-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
7/11/23	9:21	6D WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		6D WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		6D WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		6D WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		6D WELL quarterly 250 mL	G	1P	NP	GW							X										
		6D WELL quarterly 250 mL	G	1P	NP	GW									X								
		6D WELL quarterly 250 mL	G	1P	NP	GW										X							
JI 7/12/23																							
Per sample bottle																							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	sdriscoll@woodardcurran.com,
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	7/12	1505	[signature]	7/12	1505
[signature]	7/12	1745	[signature]	7/12/23	1745

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 4.8 °C

Lab Use Only		
	Sample Pick Up Only	
	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No: 2307-11509		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-1-1-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITIRITE NO2	NITRATE N03		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
7/1/23	8:45	6S WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		6S WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		6S WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		6S WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		6S WELL quarterly 250 mL	G	1P	NP	GW							X										
		6S WELL quarterly 250 mL	G	1P	NP	GW									X								
		6S WELL quarterly 250 mL	G	1P	NP	GW										X							
JI 7/12/23																							
Per Sample bottle																							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	sdriscoll@woodardcurran.com,
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	7/12	1505	[signature]	7/12	1505
RCM	7/12	1745	[signature]	7/12/23	1745

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options
MCP Standard _____
MWRA eSMART
State Report & Upload

Project Comments

Temp. Upon Receipt 4.8 °C NK

Lab Use Only		
	Sample Pick Up Only	
	RTAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No: 2307-11509		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-1-1-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
7/11/23	10:28	IS WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		IS WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		IS WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		IS WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		IS WELL quarterly 250 mL	G	1P	NP	GW							X										
		IS WELL quarterly 250 mL	G	1P	NP	GW									X								
		IS WELL quarterly 250 mL	G	1P	NP	GW										X							
JI 7/12/23																							
Per Sample bottle																							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	sdriscoll@woodardcurran.com,
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	7/12	1505	[signature]	7/12	1505
[signature]	7/12	1745	[signature]	7/12/23	1745

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 4.8 °C NM

Lab Use Only		
✓	Sample Pick Up Only	
✓	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No: 2307-11509		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M		TKN	TOTAL PHOS	NITRITE NO2	NITRATE NO3		ORTHO PHOS		ALKALINITY	CHLORIDE		COPPER	BORON	SODIUM		EPA 624 VOC	
7/11/23	9:57	475 WELL quarterly 250 mL sulfuric	G	1P	S	GW		X	X														
		475 WELL quarterly 250mL nitric	G	1P	N	GW												X	X	X			
		475 WELL quarterly VOC 40 mL thio	G	2V	T	GW																X	
		475 WELL quarterly 250 mL	G	1P	NP	GW				X	X												
		475 WELL quarterly 250 mL	G	1P	NP	GW							X										
		475 WELL quarterly 250 mL	G	1P	NP	GW									X								
		475 WELL quarterly 250 mL	G	1P	NP	GW										X							
JI 7/12/23																							
Per Sample bottle.																							

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Well Quarterly main plant -----WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth MA 02360	Report To:	Sean d	Cell: 774-608-1213	Phone: 508-830-4159
Main Telephone:	508-830-4159 x207	Sampled by:		Email addresses	sdriscoll@woodardcurran.com,
Contact Person:	Sean d	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	7/12	1505	[signature]	7/12	1505
[signature]	7/12	1745	[signature]	7/12/23	1745

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	Rush – Date Due: ___/___/___		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

nil

Temp. Upon Receipt 4.8°C

Lab Use Only		
✓	Sample Pick Up Only	
✓	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No: 2307-1509		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 8/16/2023
Date Reported: 8/23/2023
P.O. Number

Work Order #: 2308-13860

Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Katie Amaral

Katie Amaral, Ph.D., CMQ/OE
Laboratory Director

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MPN	Most Probably Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2308-13860

Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 001
Sample Description: WELL A8
Sample Type : GRAB
Sample Date / Time : 8/16/2023 @ 08:32

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	3.6	0.020	mg/L	SM 4500 P E-2011	8/17/2023	0:57	JW
Total Phosphorus (as P)	3.7	0.010	mg/L	SM4500P-B,E-2011	8/17/2023	10:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 002
Sample Description: WELL A9
Sample Type : GRAB
Sample Date / Time : 8/16/2023 @ 09:41

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	8/17/2023	0:57	JW
Total Phosphorus (as P)	0.025	0.010	mg/L	SM4500P-B,E-2011	8/17/2023	10:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 003
Sample Description: WELL A10
Sample Type : GRAB
Sample Date / Time : 8/16/2023 @ 10:24

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	8/17/2023	0:57	JW
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500P-B,E-2011	8/17/2023	10:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2308-13860
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 004
Sample Description: WELL A11
Sample Type : GRAB
Sample Date / Time : 8/16/2023 @ 13:31

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	8/17/2023	0:57	JW
Total Phosphorus (as P)	0.018	0.010	mg/L	SM4500P-B,E-2011	8/18/2023	13:13	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 005
Sample Description: WELL A16
Sample Type : GRAB
Sample Date / Time : 8/16/2023 @ 09:06

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.039	0.020	mg/L	SM 4500 P E-2011	8/17/2023	0:57	JW
Total Phosphorus (as P)	0.095	0.010	mg/L	SM4500P-B,E-2011	8/17/2023	10:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 006
Sample Description: WELL IS
Sample Type : GRAB
Sample Date / Time : 8/16/2023 @ 11:11

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	8/17/2023	0:57	JW
Total Phosphorus (as P)	0.011	0.010	mg/L	SM4500P-B,E-2011	8/17/2023	10:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2308-13860
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 007
Sample Description: WELL 6D
Sample Type : GRAB
Sample Date / Time : 8/16/2023 @ 12:34

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	8/17/2023	0:57	JW
Total Phosphorus (as P)	0.014	0.010	mg/L	SM4500P-B,E-2011	8/18/2023	13:13	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 008
Sample Description: WELL 47S
Sample Type : GRAB
Sample Date / Time : 8/16/2023 @ 11:53

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Total Phosphorus (as P)	0.018	0.010	mg/L	SM4500P-B,E-2011	8/18/2023	13:13	VC

Orthophosphate - Sample collected in a sulfuric preserved bottle; could not be analyzed due to improper preservative.

Sample Number: 009
Sample Description: WELL 6S
Sample Type : GRAB
Sample Date / Time : 8/16/2023 @ 13:01

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM 4500 P E-2011	8/17/2023	0:57	JW
Total Phosphorus (as P)	0.040	0.010	mg/L	SM4500P-B,E-2011	8/18/2023	13:13	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
8/16/23	08:32	Well (250 mL) A8	G	1P	NP	GW		X
8/16/23	08:32	Well (250 mL) A8	G	1P	S	GW	X	
8/16/23	09:41	Well (250 mL) A9	G	1P	NP	GW		X
8/16/23	09:41	Well (250 mL) A9	G	1P	S	GW	X	
8/16/23	1024	Well (250 mL) A10	G	1P	NP	GW		X
8/16/23	1024	Well (250 mL) A10	G	1P	S	GW	X	
8/16/23	13:31	Well (250 mL) A11	G	1P	NP	GW		X
8/16/23	13:31	Well (250 mL) A11	G	1P	S	GW	X	
8/16/23	09:06	Well (250 mL) A16	G	1P	NP	GW		X
8/16/23	09:06	Well (250 mL) A16	G	1P	S	GW	X	

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly Wells – Main Plant WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	EMcNeil@woodardcurran.com rscott@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	8/16/23	14:43	RM	8/16/23	1520
RM	8/16/23	1815	[signature]	8/16/23	1815

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Email results to sdriscoll@woodardcurran.com; jfreemand@woodardcurran.com; kfontaine@woodardcurran.com; & rscott@woodardcurran.com

nl
55°c

Lab Use Only		
	Sample Pick Up Only	
	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No: 2308-13860		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate	
8/16/23	11:11	Well (250 mL) IS	G	1P	NP	GW		X	
8/16/23	11:11	Well (250 mL) IS	G	1P	S	GW	X		
8/16/23	12:34	Well (250 mL) 6D	G	1P	NP	GW		X	
8/16/23	12:34	Well (250 mL) 6D	G	1P	S	GW	X		
					S RP 8/16/23				
8/16/23	11:53	Well (250 mL) 475	G	1P	~~NP~~	GW		~~X~~	cannot run OP due to improper pres. RP 8/16/23
8/16/23	11:53	Well (250 mL) 475	G	1P	S	GW	X		
8/16/23	13:01	Well (250 mL) 6S	G	1P	NP	GW		X	
8/16/23	13:01	Well (250 mL) 6S	G	1P	~~NP~~ S RP 8/16/23	GW	X		→ sample split made to run total phos.
		Well (250 mL)	G	1P	NP	GW		X	
		Well (250 mL)	G	1P	S	GW	X		

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly Wells – Main Plant WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	EMcNeil@woodardcurran.com rscott@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature] RM	8/16/23	14:43	RM	8/16/23	1520
RM	8/16/23	1815	[signature]	8/16/23	1815

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	Project Comments	Lab Use Only
MCP Standard _____	Email results to sdriscoll@woodardcurran.com; jfreemand@woodardcurran.com; kfontaine@woodardcurran.com; & rscott@woodardcurran.com	/ Sample Pick Up Only
MWRA eSMART		RIAL sampled; attach field hours
State Report & Upload		/ Received on Ice / No Ice
		Workorder No: 2308-13860

RM 5.5°C

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 8/23/2023
Date Reported: 8/28/2023
P.O. Number

Work Order #: 2308-14320

Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Katie Amaral

Katie Amaral, Ph.D., CMQ/OE
Laboratory Director

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MPN	Most Probably Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2308-14320

Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 001
Sample Description: WELL (250ML) 475 WELL
Sample Type : GRAB
Sample Date / Time : 8/23/2023 @ 08:10

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	8/23/2023	22:07	JW

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite (10-14-20)	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
8/23/23	8:10	Well (250 mL) 475 well	G	1P	NP	GW		X

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly Wells – Main Plant WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	sdricoll@woodardcurran.com rscott@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[illegible]	8/23/23	14:06	[illegible]	8/23/23	1406
[illegible]	8/23/23	1627	Brandon Davis	8/23/23	10:27

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Email results to sdriscoll@woodardcurran.com; jfreemand@woodardcurran.com; kfontaine@woodardcurran.com; & rscott@woodardcurran.com smooney@woodardcurran.com

6.7°C

Lab Use Only			
	Sample Pick Up Only		
	RIAL sampled; attach field hours		
	Received on Ice		No Ice
Workorder No: 2308 – 14326			

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 9/20/2023
Date Reported: 9/29/2023
P.O. Number

Work Order #: 2309-16063
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Katie Amaral

Katie Amaral, Ph.D., CMQ/OE
Laboratory Director

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
MDL	Method Detection Limit
MPN	Most Probable Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2309-16063
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 001
Sample Description: WELL 475
Sample Type : GRAB
Sample Date / Time : 9/19/2023 @ 08:38

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	9/20/2023	23:54	JW
Total Phosphorus (as P)	0.017	0.010	mg/L	SM4500 P-B,E-2011	9/25/2023	14:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 002
Sample Description: WELL 6S
Sample Type : GRAB
Sample Date / Time : 9/19/2023 @ 09:22

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	9/20/2023	23:54	JW
Total Phosphorus (as P)	0.026	0.010	mg/L	SM4500 P-B,E-2011	9/25/2023	14:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 003
Sample Description: WELL 6D
Sample Type : GRAB
Sample Date / Time : 9/19/2023 @ 09:06

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	9/20/2023	23:54	JW
Total Phosphorus (as P)	0.013	0.010	mg/L	SM4500 P-B,E-2011	9/25/2023	14:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2309-16063

Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 004
Sample Description: WELL 1S
Sample Type : GRAB
Sample Date / Time : 9/19/2023 @ 09:49

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	9/20/2023	23:54	JW
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500 P-B,E-2011	9/25/2023	14:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 005
Sample Description: WELL A16
Sample Type : GRAB
Sample Date / Time : 9/19/2023 @ 11:25

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	0.050	0.020	mg/L	SM4500 P E-2011	9/20/2023	23:54	JW
Total Phosphorus (as P)	0.10	0.010	mg/L	SM4500 P-B,E-2011	9/28/2023	9:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 006
Sample Description: WELL A10
Sample Type : GRAB
Sample Date / Time : 9/19/2023 @ 10:19

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	9/20/2023	23:54	JW
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500 P-B,E-2011	9/25/2023	14:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2309-16063
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 007
Sample Description: WELL A9
Sample Type : GRAB
Sample Date / Time : 9/19/2023 @ 10:53

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	9/20/2023	23:54	JW
Total Phosphorus (as P)	0.027	0.010	mg/L	SM4500 P-B,E-2011	9/28/2023	9:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 008
Sample Description: WELL A8
Sample Type : GRAB
Sample Date / Time : 9/19/2023 @ 11:54

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	4.0	0.020	mg/L	SM4500 P E-2011	9/20/2023	23:54	JW
Total Phosphorus (as P)	3.8	0.010	mg/L	SM4500 P-B,E-2011	9/28/2023	9:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Orthophosphate - Result is greater than Total Phosphorus (as P), however results are within duplicate criteria of each other.

Sample Number: 009
Sample Description: WELL A11
Sample Type : GRAB
Sample Date / Time : 9/19/2023 @ 12:20

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	9/21/2023	0:19	JW
Total Phosphorus (as P)	0.016	0.010	mg/L	SM4500 P-B,E-2011	9/28/2023	9:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
9/19	838	Well (250 mL) 475	G	1P	NP	GW		X
	838	Well (250 mL) 475	G	1P	S	GW	X	
	922	Well (250 mL) 6S	G	1P	NP	GW		X
	922	Well (250 mL) 6S	G	1P	S	GW	X	
	906	Well (250 mL) 6D	G	1P	NP	GW		X
	906	Well (250 mL) 6D	G	1P	S	GW	X	
	949	Well (250 mL) 1S	G	1P	NP	GW		X
	949	Well (250 mL) 1S	G	1P	S	GW	X	
	1125	Well (250 mL) A16	G	1P	NP	GW		X
	1125	Well (250 mL) A16	G	1P	S	GW	X	

Client Information	
Company Name:	Woodard & Curran
Address:	131 Camelot Drive
City / State / Zip:	Plymouth, MA 02360
Main Telephone:	508-830-4159
Contact Person:	Sean Driscoll

Project Information			
Project Name:	Monthly Wells – Main Plant WWTP		
P.O. Number:		Project Number:	
Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Sampled by:		Email addresses	sdriscoll@woodardcurran.com rscott@woodardcurran.com
Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	9/19/23	1800			
	9/20/23	1800		9/20/23	1457
RW	9/20/23	1715		9/20/23	1715

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Email results to sdriscoll@woodardcurran.com; jfreemand@woodardcurran.com; kfontaine@woodardcurran.com; & rscott@woodardcurran.com smooney@woodardcurran.com

NC
4.1°C

Lab Use Only	
✓	Sample Pick Up Only
	RIAL sampled; attach field hours
✓	Received on Ice / No Ice
Workorder No:	2309-16063

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
9/19	10:19	Well (250 mL) A10	G	1P	NP	GW		X
	10:19	Well (250 mL) A10	G	1P	S	GW	X	
	1053	Well (250 mL) A9	G	1P	NP	GW		X
	1053	Well (250 mL) A9	G	1P	S	GW	X	
	1154	Well (250 mL) A8	G	1P	NP	GW		X
	1154	Well (250 mL) A8	G	1P	S	GW	X	
	1220	Well (250 mL) A11	G	1P	NP	GW		X
	1220	Well (250 mL) A11	G	1P	S	GW	X	
		Well (250 mL)	G	1P	NP	GW		X
		Well (250 mL)	G	1P	S	GW	X	

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly Wells – Main Plant WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	sdriscoll@woodardcurran.com rscott@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	9/19/23	1500			
	9/20/23	1500		9/20/23	1457
RCL	9/20/23	1715	Brandon Gunc	9/20/23	17:15

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Email results to sdriscoll@woodardcurran.com; jfreemand@woodardcurran.com; kfontaine@woodardcurran.com; & rscott@woodardcurran.com smooney@woodardcurran.com

RLC
4.1°C

Lab Use Only		
	Sample Pick Up Only	
	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No: 2309-16063		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 10/18/2023
Date Reported: 10/27/2023
P.O. Number

Work Order #: 2310-17852

Project Name: GROUNDWATER MONITORING

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Katie Amaral

Katie Amaral, Ph.D., CMQ/OE
Laboratory Director

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
MDL	Method Detection Limit
MPN	Most Probable Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 001
Sample Description: QUARTERLY WELL (A8)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 12:49

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Alkalinity (as CaCO3)	180	1.0	mg/L	SM2320B 18-21ed	10/18/2023 21:37	RPK
Orthophosphate	4.1	0.020	mg/L	SM4500 P E-2011	10/18/2023 23:32	JW
Chloride	650	1.0	mg/L	EPA 300.0	10/24/2023 17:08	JW
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	10/18/2023 21:45	JW
Nitrate (as N)	5.6	0.050	mg/L	EPA 300.0	10/18/2023 21:45	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	10/25/2023 7:05	KLS
Total Phosphorus (as P)	3.7	0.010	mg/L	SM4500 P-B,E-2011	10/24/2023 8:15	VC
Total Metals						
Boron	0.25	0.010	mg/L	EPA 200.7	10/24/2023 17:05	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	10/24/2023 17:05	KK
Sodium	440	1.0	mg/L	EPA 200.7	10/24/2023 17:47	KK
Volatile Organic Compounds						
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Chloroform	8.1	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/19/2023 21:59	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 001
Sample Description: QUARTERLY WELL (A8)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 12:49

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Acetone	<10	10	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023 21:59	SGM
Surrogates			RANGE	EPA 624.1	10/19/2023 21:59	SGM
Dibromofluoromethane	99		60-140%	EPA 624.1	10/19/2023 21:59	SGM
Toluene-D8	99		60-140%	EPA 624.1	10/19/2023 21:59	SGM
4-Bromofluorobenzene	94		60-140%	EPA 624.1	10/19/2023 21:59	SGM
ICP Digestion				EPA 200.7	10/20/2023 11:05	BRB

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Orthophosphate - Result is greater than Total Phosphorus (as P), however results are within duplicate criteria of each other.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 002
Sample Description: QUARTERLY WELL (A9)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 11:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	83	1.0	mg/L	SM2320B 18-21ed	10/18/2023	21:37	RPK
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	10/18/2023	23:32	JW
Chloride	680	1.0	mg/L	EPA 300.0	10/24/2023	17:24	JW
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	10/18/2023	22:00	JW
Nitrate (as N)	3.9	0.050	mg/L	EPA 300.0	10/18/2023	22:00	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	10/25/2023	7:05	KLS
Total Phosphorus (as P)	0.024	0.010	mg/L	SM4500 P-B,E-2011	10/24/2023	8:15	VC
Total Metals							
Boron	0.15	0.010	mg/L	EPA 200.7	10/20/2023	14:26	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	10/20/2023	14:26	KK
Sodium	410	1.0	mg/L	EPA 200.7	10/20/2023	16:06	KK
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Chloroform	5.53	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	22:27	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 002
Sample Description: QUARTERLY WELL (A9)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 11:50

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Acetone	<10	10	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:27	SGM
Surrogates			RANGE	EPA 624.1	10/19/2023	22:27	SGM
Dibromofluoromethane	98		60-140%	EPA 624.1	10/19/2023	22:27	SGM
Toluene-D8	99		60-140%	EPA 624.1	10/19/2023	22:27	SGM
4-Bromofluorobenzene	95		60-140%	EPA 624.1	10/19/2023	22:27	SGM
ICP Digestion				EPA 200.7	10/19/2023	8:30	BRB

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 003
Sample Description: QUARTERLY WELL (A10)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 11:13

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	47	1.0	mg/L	SM2320B 18-21ed	10/18/2023	21:37	RPK
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	10/18/2023	23:32	JW
Chloride	610	1.0	mg/L	EPA 300.0	10/24/2023	17:40	JW
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	10/18/2023	22:16	JW
Nitrate (as N)	3.2	0.050	mg/L	EPA 300.0	10/18/2023	22:16	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	10/25/2023	7:05	KLS
Total Phosphorus (as P)	0.043	0.010	mg/L	SM4500 P-B,E-2011	10/24/2023	8:15	VC
Total Metals							
Boron	0.15	0.010	mg/L	EPA 200.7	10/20/2023	14:27	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	10/20/2023	14:27	KK
Sodium	370	1.0	mg/L	EPA 200.7	10/20/2023	16:07	KK
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Chloroform	4.9	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	22:56	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 003
Sample Description: QUARTERLY WELL (A10)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 11:13

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Acetone	<10	10	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	22:56	SGM
Surrogates			RANGE	EPA 624.1	10/19/2023	22:56	SGM
Dibromofluoromethane	99		60-140%	EPA 624.1	10/19/2023	22:56	SGM
Toluene-D8	100		60-140%	EPA 624.1	10/19/2023	22:56	SGM
4-Bromofluorobenzene	94		60-140%	EPA 624.1	10/19/2023	22:56	SGM
ICP Digestion				EPA 200.7	10/19/2023	8:30	BRB

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 004
Sample Description: QUARTERLY WELL (A11)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 14:34

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	12	1.0	mg/L	SM2320B 18-21ed	10/18/2023	21:37	RPK
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	10/18/2023	23:32	JW
Chloride	230	1.0	mg/L	EPA 300.0	10/18/2023	22:32	JW
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	10/18/2023	22:32	JW
Nitrate (as N)	2.0	0.050	mg/L	EPA 300.0	10/18/2023	22:32	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	10/25/2023	7:05	KLS
Total Phosphorus (as P)	0.022	0.010	mg/L	SM4500 P-B,E-2011	10/24/2023	8:15	VC
Total Metals							
Boron	0.052	0.010	mg/L	EPA 200.7	10/20/2023	14:34	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	10/20/2023	14:34	KK
Sodium	130	0.050	mg/L	EPA 200.7	10/20/2023	14:34	KK
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Chloroform	2.2	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	23:24	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 004
Sample Description: QUARTERLY WELL (A11)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 14:34

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Acetone	<10	10	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:24	SGM
Surrogates			RANGE	EPA 624.1	10/19/2023	23:24	SGM
Dibromofluoromethane	100		60-140%	EPA 624.1	10/19/2023	23:24	SGM
Toluene-D8	100		60-140%	EPA 624.1	10/19/2023	23:24	SGM
4-Bromofluorobenzene	94		60-140%	EPA 624.1	10/19/2023	23:24	SGM
ICP Digestion				EPA 200.7	10/19/2023	8:30	BRB

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 005
Sample Description: QUARTERLY WELL (A16)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 14:04

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	160	1.0	mg/L	SM2320B 18-21ed	10/18/2023	21:37	RPK
Orthophosphate	0.052	0.020	mg/L	SM4500 P E-2011	10/18/2023	23:32	JW
Chloride	710	1.0	mg/L	EPA 300.0	10/24/2023	17:56	JW
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	10/18/2023	22:48	JW
Nitrate (as N)	2.8	0.050	mg/L	EPA 300.0	10/18/2023	22:48	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	10/25/2023	7:05	KLS
Total Phosphorus (as P)	0.11	0.010	mg/L	SM4500 P-B,E-2011	10/24/2023	8:15	VC
Total Metals							
Boron	0.22	0.010	mg/L	EPA 200.7	10/20/2023	14:36	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	10/20/2023	14:36	KK
Sodium	460	1.0	mg/L	EPA 200.7	10/20/2023	16:26	KK
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Chloroform	8.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/19/2023	23:53	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 005
Sample Description: QUARTERLY WELL (A16)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 14:04

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Acetone	<10	10	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/19/2023	23:53	SGM
Surrogates			RANGE	EPA 624.1	10/19/2023	23:53	SGM
Dibromofluoromethane	100		60-140%	EPA 624.1	10/19/2023	23:53	SGM
Toluene-D8	100		60-140%	EPA 624.1	10/19/2023	23:53	SGM
4-Bromofluorobenzene	94		60-140%	EPA 624.1	10/19/2023	23:53	SGM
ICP Digestion				EPA 200.7	10/19/2023	8:30	BRB

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 006
Sample Description: QUARTERLY WELL (1S)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	14	1.0	mg/L	SM2320B 18-21ed	10/18/2023	21:37	RPK
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	10/18/2023	23:32	JW
Chloride	15	1.0	mg/L	EPA 300.0	10/18/2023	23:04	JW
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	10/18/2023	23:04	JW
Nitrate (as N)	0.11	0.050	mg/L	EPA 300.0	10/18/2023	23:04	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	10/25/2023	7:05	KLS
Total Phosphorus (as P)	0.017	0.010	mg/L	SM4500 P-B,E-2011	10/24/2023	8:15	VC
Total Metals							
Boron	0.012	0.010	mg/L	EPA 200.7	10/20/2023	14:37	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	10/20/2023	14:37	KK
Sodium	8.6	0.050	mg/L	EPA 200.7	10/20/2023	14:37	KK
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Chloroform	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/20/2023	0:22	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 006
Sample Description: QUARTERLY WELL (1S)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 10:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Acetone	<10	10	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:22	SGM
Surrogates			RANGE	EPA 624.1	10/20/2023	0:22	SGM
Dibromofluoromethane	99		60-140%	EPA 624.1	10/20/2023	0:22	SGM
Toluene-D8	100		60-140%	EPA 624.1	10/20/2023	0:22	SGM
4-Bromofluorobenzene	95		60-140%	EPA 624.1	10/20/2023	0:22	SGM
ICP Digestion				EPA 200.7	10/19/2023	8:30	BRB

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 007
Sample Description: QUARTERLY WELL (475)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 10:11

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Alkalinity (as CaCO3)	13	1.0	mg/L	SM2320B 18-21ed	10/18/2023 21:37	RPK
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	10/18/2023 23:32	JW
Chloride	370	1.0	mg/L	EPA 300.0	10/24/2023 18:12	JW
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	10/18/2023 23:19	JW
Nitrate (as N)	4.3	0.050	mg/L	EPA 300.0	10/18/2023 23:19	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	10/25/2023 7:05	KLS
Total Phosphorus (as P)	0.023	0.010	mg/L	SM4500 P-B,E-2011	10/24/2023 8:15	VC
Total Metals						
Boron	0.063	0.010	mg/L	EPA 200.7	10/20/2023 14:47	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	10/20/2023 14:47	KK
Sodium	200	0.050	mg/L	EPA 200.7	10/20/2023 14:47	KK
Volatile Organic Compounds						
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Chloroform	5.5	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/20/2023 0:50	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 0:50	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 007
Sample Description: QUARTERLY WELL (475)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 10:11

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Acetone	<10	10	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	0:50	SGM
Surrogates			RANGE	EPA 624.1	10/20/2023	0:50	SGM
Dibromofluoromethane	100		60-140%	EPA 624.1	10/20/2023	0:50	SGM
Toluene-D8	99		60-140%	EPA 624.1	10/20/2023	0:50	SGM
4-Bromofluorobenzene	93		60-140%	EPA 624.1	10/20/2023	0:50	SGM
ICP Digestion				EPA 200.7	10/19/2023	8:30	BRB

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 008
Sample Description: QUARTERLY WELL (6D)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 09:23

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
Alkalinity (as CaCO3)	13	1.0	mg/L	SM2320B 18-21ed	10/18/2023	21:37	RPK
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	10/19/2023	0:01	JW
Chloride	200	1.0	mg/L	EPA 300.0	10/18/2023	23:35	JW
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	10/18/2023	23:35	JW
Nitrate (as N)	3.1	0.050	mg/L	EPA 300.0	10/18/2023	23:35	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	10/25/2023	7:05	KLS
Total Phosphorus (as P)	0.028	0.010	mg/L	SM4500 P-B,E-2011	10/23/2023	9:00	VC
Total Metals							
Boron	0.060	0.010	mg/L	EPA 200.7	10/20/2023	14:49	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	10/20/2023	14:49	KK
Sodium	130	0.050	mg/L	EPA 200.7	10/20/2023	14:49	KK
Volatile Organic Compounds							
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Chloroform	1.8	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/20/2023	1:19	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 008
Sample Description: QUARTERLY WELL (6D)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 09:23

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Acetone	<10	10	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:19	SGM
Surrogates			RANGE	EPA 624.1	10/20/2023	1:19	SGM
Dibromofluoromethane	100		60-140%	EPA 624.1	10/20/2023	1:19	SGM
Toluene-D8	99		60-140%	EPA 624.1	10/20/2023	1:19	SGM
4-Bromofluorobenzene	93		60-140%	EPA 624.1	10/20/2023	1:19	SGM
ICP Digestion				EPA 200.7	10/19/2023	8:30	BRB

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 009
Sample Description: QUARTERLY WELL (6S)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 09:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Alkalinity (as CaCO3)	14	1.0	mg/L	SM2320B 18-21ed	10/18/2023 21:37	RPK
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	10/19/2023 0:01	JW
Chloride	68	1.0	mg/L	EPA 300.0	10/18/2023 23:51	JW
Nitrite (as N)	<0.050	0.050	mg/L	EPA 300.0	10/18/2023 23:51	JW
Nitrate (as N)	1.6	0.050	mg/L	EPA 300.0	10/18/2023 23:51	JW
TKN (as N)	<0.50	0.50	mg/L	SM4500NOrg-D 18-21ed	10/25/2023 7:05	KLS
Total Phosphorus (as P)	0.037	0.010	mg/L	SM4500 P-B,E-2011	10/24/2023 8:15	VC
Total Metals						
Boron	0.013	0.010	mg/L	EPA 200.7	10/20/2023 14:51	KK
Copper	<0.0050	0.0050	mg/L	EPA 200.7	10/20/2023 14:51	KK
Sodium	39	0.050	mg/L	EPA 200.7	10/20/2023 14:51	KK
Volatile Organic Compounds						
Chloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Bromomethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Vinyl Chloride	<0.40	0.40	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Chloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Methylene Chloride	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Trichlorofluoromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
1,1-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
1,1-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
trans-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Chloroform	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
1,2-Dichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
1,1,1-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Carbon Tetrachloride	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Bromodichloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
1,2-Dichloropropane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
cis-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Trichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
trans-1,3-Dichloropropylene	<0.40	0.40	ug/L	EPA 624.1	10/20/2023 1:47	SGM
1,1,2-Trichloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Dibromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Bromoform	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Tetrachloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
Chlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
2-Chloroethyl vinyl ether	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
1,2-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM
1,3-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023 1:47	SGM

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2310-17852
Project Name: GROUNDWATER MONITORING

Sample Number: 009
Sample Description: QUARTERLY WELL (6S)
Sample Type : GRAB
Sample Date / Time : 10/17/2023 @ 09:40

PARAMETER	SAMPLE RESULTS	DET. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED		ANALYST
1,4-Dichlorobenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Dichlorobenzenes	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Benzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Toluene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Ethylbenzene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
o-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
m,p-Xylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Acetone	<10	10	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Acrolein	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Acrylonitrile	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Methyl Tertiary Butyl Ether (MTBE)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Carbon Disulfide	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Styrene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Vinyl Acetate	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
4-methyl-2-pentanone(MIBK)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
2-Hexanone	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
2-Butanone(MEK)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
cis-1,2-Dichloroethylene	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
1,2-Dibromoethane(EDB)	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Dibromomethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Bromochloromethane	<1.0	1.0	ug/L	EPA 624.1	10/20/2023	1:47	SGM
Surrogates			RANGE	EPA 624.1	10/20/2023	1:47	SGM
Dibromofluoromethane	99		60-140%	EPA 624.1	10/20/2023	1:47	SGM
Toluene-D8	100		60-140%	EPA 624.1	10/20/2023	1:47	SGM
4-Bromofluorobenzene	95		60-140%	EPA 624.1	10/20/2023	1:47	SGM
ICP Digestion				EPA 200.7	10/19/2023	8:30	BRB

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite (10-14-20)	# of Containers & Type C	Preservation Code P	Matrix Code M		Nitrite N02	Nitrate N03	Ortho Phosphate	Alkalinity	Chloride		TKN	Total Phosphorous		Copper	Boron	Sodium		EPA 624 VOC			
10/17/23	12:49	Quarterly Well (A8) 1000ml	G	1P	NP			X	X	X	X	X												
		Quarterly Well (A8) 250ml	G	1P	S									X	X									
		Quarterly Well (A8) 250ml	G	1P	N												X	X	X					
		Quarterly Well (A8) 40ml	G	2V	T																X			
	11:50	Quarterly Well (A9) 1000ml	G	1P	NP			X	X	X	X	X												
		Quarterly Well (A9) 250ml	G	1P	S									X	X									
		Quarterly Well (A9) 250ml	G	1P	N												X	X	X					
		Quarterly Well (A9) 40ml	G	2V	T																X			
	11:13	Quarterly Well (A10) 1000ml	G	1P	NP			X	X	X	X	X												
		Quarterly Well (A10) 250ml	G	1P	S									X	X									
		Quarterly Well (A10) 250ml	G	1P	N												X	X	X					
		Quarterly Well (A10) 40ml	G	2V	T																X			

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:			
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401-578-9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	Sdriscoll@woodardcurran.com rscott@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	10/18/23	1450	[signature]	10/18/23	1450
[signature]	10/18/23	1730	[signature]	10/18/20	17:30

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 2°C

Lab Use Only			
	Sample Pick Up Only		
	RIAL sampled; attach field hours		
	Received on Ice		No Ice
Workorder No: 2310-17852			

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

CS 10/18/23

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite (10-14-20)	# of Containers & Type C	Preservation Code P	Matrix Code M																		
10/17/23	14:34	Quarterly Well (A11) 1000ml	G	1P	NP			X	X	X	X	X												
		Quarterly Well (A11) 250ml	G	1P	S									X	X									
		Quarterly Well (A11) 250ml	G	1P	N												X	X	X					
		Quarterly Well (A11) 40ml	G	2V	T																X			
	14:04	Quarterly Well (A16) 1000ml	G	1P	NP			X	X	X	X	X												
		Quarterly Well (A16) 250ml	G	1P	S									X	X									
		Quarterly Well (A16) 250ml	G	1P	N												X	X	X					
		Quarterly Well (A16) 40ml	G	2V	T																X			
	10:40	Quarterly Well (1S) 1000ml	G	1P	NP			X	X	X	X	X												
		Quarterly Well (1S) 250ml	G	1P	S									X	X									
		Quarterly Well (1S) 250ml	G	1P	N												X	X	X					
		Quarterly Well (1S) 40ml	G	2V	T																X			

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:			
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401-578-9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	Sdriscoll@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			rscott@woodardcurran.com

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[illegible]	10/18/23	1450	[illegible]	10/18/23	1450
[illegible]	10/18/23	1730	Brendan Davis	10/18/23	17:30

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 5.2°C

Lab Use Only		
✓	Sample Pick Up Only	
	RIAL sampled; attach field hours	
✓	Received on Ice	No Ice
Workorder No: 2310-17852		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

CJ 10/18/23

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite C	# of Containers & Type	Preservation Code P	Matrix Code M																		
10/17/23	10:11	Quarterly Well (475) 1000ml	G	1P	NP			X	X	X	X	X												
		Quarterly Well (475) 250ml	G	1P	S									X	X									
		Quarterly Well (475) 250ml	G	1R	N												X	X	X					
		Quarterly Well (475) 40ml	G	2V	T																X			
	9:23	Quarterly Well (6D) 1000ml	G	1P	NP			X	X	X	X	X												
		Quarterly Well (6D) 250ml	G	1P	S									X	X									
		Quarterly Well (6D) 250ml	G	1P	N												X	X	X					
		Quarterly Well (6D) 40ml	G	2V	T																X			
	9:40	Quarterly Well (6S) 1000ml	G	1P	NP			X	X	X	X	X												
		Quarterly Well (6S) 250ml	G	1P	S									X	X									
		Quarterly Well (6S) 250ml	G	1P	N												X	X	X					
		Quarterly Well (6S) 40ml	G	2V	T																X			

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:			
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401-578-9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	Sdriscoll@woodardcurran.com rscott@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	10/18/23	1450	[signature]	10/18/23	1450
[signature]	10/18/23	1730	[signature]	10/18/23	17:30

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Temp. Upon Receipt 5.2 °C

Lab Use Only		
✓	Sample Pick Up Only	
	RIAL sampled; attach field hours	
✓	Received on Ice	No Ice
Workorder No: 2310-17852		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

CS 10/18/23

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 11/15/2023
Date Reported: 11/22/2023
P.O. Number

Work Order #: 2311-19444

Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest concentration of an analyte that can be reliably detected under routine laboratory conditions. The Reporting Limit is the minimum concentration that can be reliably quantified under routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Brent Plant
Data Reporting

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
MDL	Method Detection Limit
MPN	Most Probable Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2311-19444
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 001
Sample Description: WELL A8
Sample Type : GRAB
Sample Date / Time : 11/14/2023 @ 14:30

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	4.1	0.020	mg/L	SM4500 P E-2011	11/15/2023 23:25	JW
Total Phosphorus (as P)	4.3	0.010	mg/L	SM4500 P-B,E-2011	11/17/2023 16:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 002
Sample Description: WELL A9
Sample Type : GRAB
Sample Date / Time : 11/14/2023 @ 13:00

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	11/15/2023 23:25	JW
Total Phosphorus (as P)	0.025	0.010	mg/L	SM4500 P-B,E-2011	11/17/2023 16:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 003
Sample Description: WELL A10
Sample Type : GRAB
Sample Date / Time : 11/14/2023 @ 13:30

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	11/15/2023 23:25	JW
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500 P-B,E-2011	11/17/2023 16:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2311-19444
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 004
Sample Description: WELL A11
Sample Type : GRAB
Sample Date / Time : 11/14/2023 @ 10:00

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	11/15/2023 23:25	JW
Total Phosphorus (as P)	0.014	0.010	mg/L	SM4500 P-B,E-2011	11/17/2023 16:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 005
Sample Description: WELL A16
Sample Type : GRAB
Sample Date / Time : 11/14/2023 @ 14:00

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	0.061	0.020	mg/L	SM4500 P E-2011	11/15/2023 23:25	JW
Total Phosphorus (as P)	0.092	0.010	mg/L	SM4500 P-B,E-2011	11/17/2023 16:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 006
Sample Description: WELL 1S
Sample Type : GRAB
Sample Date / Time : 11/14/2023 @ 12:30

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	11/15/2023 23:25	JW
Total Phosphorus (as P)	0.022	0.010	mg/L	SM4500 P-B,E-2011	11/17/2023 16:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2311-19444
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 007
Sample Description: WELL 475
Sample Type : GRAB
Sample Date / Time : 11/14/2023 @ 10:30

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	11/15/2023 23:25	JW
Total Phosphorus (as P)	0.017	0.010	mg/L	SM4500 P-B,E-2011	11/17/2023 16:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 008
Sample Description: WELL 6D
Sample Type : GRAB
Sample Date / Time : 11/14/2023 @ 11:00

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	11/15/2023 23:25	JW
Total Phosphorus (as P)	0.016	0.010	mg/L	SM4500 P-B,E-2011	11/17/2023 16:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 009
Sample Description: WELL 6S
Sample Type : GRAB
Sample Date / Time : 11/14/2023 @ 11:30

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	11/15/2023 23:25	JW
Total Phosphorus (as P)	0.020	0.010	mg/L	SM4500 P-B,E-2011	11/17/2023 16:30	ZAC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
11.14.23	1430	Well (250 mL) A8	G	1P	NP	GW		X
	1430	Well (250 mL) A8	G	1P	S	GW	X	
	1300	Well (250 mL) A9	G	1P	NP	GW		X
	1300	Well (250 mL) A9	G	1P	S	GW	X	
	1330	Well (250 mL) A10	G	1P	NP	GW		X
	1330	Well (250 mL) A10	G	1P	S	GW	X	
	10:00	Well (250 mL) A11	G	1P	NP	GW		X
	10:00	Well (250 mL) A11	G	1P	S	GW	X	
	14:00	Well (250 mL) A16	G	1P	NP	GW		X
11-14-23	14:00	Well (250 mL) A16	G	1P	S	GW	X	

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly Wells – Main Plant WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	sdriscoll@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	11.14.23	1600			
	11.15.23	1500		11/15/23	1445
RW	11/15/23	1740		11/15/23	1740

Turn Around Time			
X	Normal	X	EMAIL Report
	5-7 Business days		
	2 Business Days		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Revised 8/21/2023 Driscoll

Temp. Upon Receipt 5.3 °C

Lab Use Only		
✓	Sample Pick Up Only	
	RIAL sampled; attach field hours	
	Received on Ice	No Ice
Workorder No: 2311-1944		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

JI 11/15/23

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
11·14·23	12:30	Well (250 mL) 1 S	G	1P	NP	GW		X
	12:30	Well (250 mL) 1 S	G	1P	S	GW	X	
	10:30	Well (250 mL) 475	G	1P	NP	GW		X
	10:30	Well (250 mL) 475	G	1P	S	GW	X	
	11:00	Well (250 mL) 6D	G	1P	NP	GW		X
	11:00	Well (250 mL) 6D	G	1P	S	GW	X	
	11:30	Well (250 mL) 6S	G	1P	NP	GW		X
	11:30	Well (250 mL) 6S	G	1P	S	GW	X	
		Well (250 mL)	G	1P	NP	GW		X
11·14·23		Well (250 mL)	G	1P	S	GW	X	

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly Wells – Main Plant WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	sdriscoll@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
	11.14.23	1600			
	11.15.23	1500	RLW	11/15/23	1445
RLW	11/15/23	1740	Gilmara Soares	11/15/23	1740

Turn Around Time			
X	Normal	X	EMAIL Report
	5-7 Business days		
	2 Business Days		

Reporting Options	
	MCP Standard _____
	MWRA eSMART
	State Report & Upload

Project Comments

Revised 8/21/2023 Driscoll

all

Temp. Upon Receipt 5.3 °C

Lab Use Only		
✓	Sample Pick Up Only	
	RIAL sampled; attach field hours	
✓	Received on Ice	No Ice
Workorder No: 2311-1944h		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

JI 11/15/23

R.I. ANALYTICAL
Specialists in Environmental Services

LABORATORY REPORT

Woodard & Curran, Inc.
Attn: Sean Driscoll
131 Camelot Drive
Plymouth, MA 02360

Date Received: 12/13/2023
Date Reported: 12/22/2023
P.O. Number

Work Order #: 2312-21038

Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory unless noted otherwise. When applicable subcontracted results are noted and subcontracted reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest concentration of an analyte that can be reliably detected under routine laboratory conditions. The Reporting Limit is the minimum concentration that can be reliably quantified under routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:

Kristin Phelan

Kristin Phelan
Data Reporting Manager

Laboratory Certification Numbers (as applicable to sample's origin state):
Warwick RI * RI LAI00033, MA M-RI015, CT PH-0508

Report Qualifiers & Abbreviations

These qualifiers/abbreviations may or may not be present in this report.

Qualifier	Descriptions
*	Recovery outside of acceptance limits
B	Analyte detected in method blank at a level about the detection limit
D	Surrogate diluted out to reach a parameter result within the instrument calibration curve
E	Parameter result exceeds calibration curve
J	Estimated result based on MDL

Abbreviation	Definition
BLK	Method Blank
CFU	Colony Forming Unit
DF	Dilution Factor
DL	Detection Limit
LCS(D)	Laboratory Control Standard (Duplicate)
MCL	Maximum Contaminant Level
MCLG	Maximum Contaminant Level Goal
MDL	Method Detection Limit
MPN	Most Probable Number
MS(D)	Matrix Spike (Duplicate)
QC	Quality Control
RPD	Relative Percent Difference
TIC	Tentatively Identified Compound
TNTC	Too Numerous to Count
*CS	Field data provided by the client

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2312-21038
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 001
Sample Description: WELL 1S
Sample Type : GRAB
Sample Date / Time : 12/12/2023 @ 10:48

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	12/13/2023 23:15	JW
Total Phosphorus (as P)	0.043	0.010	mg/L	SM4500 P-B,E-2011	12/19/2023 7:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 002
Sample Description: WELL 475
Sample Type : GRAB
Sample Date / Time : 12/12/2023 @ 09:15

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	12/13/2023 23:15	JW
Total Phosphorus (as P)	0.033	0.010	mg/L	SM4500 P-B,E-2011	12/19/2023 7:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 003
Sample Description: WELL 6D
Sample Type : GRAB
Sample Date / Time : 12/12/2023 @ 10:17

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	12/13/2023 23:15	JW
Total Phosphorus (as P)	0.015	0.010	mg/L	SM4500 P-B,E-2011	12/19/2023 7:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.
Work Order #: 2312-21038
Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 004
Sample Description: WELL 6S
Sample Type : GRAB
Sample Date / Time : 12/12/2023 @ 09:45

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	12/13/2023 23:15	JW
Total Phosphorus (as P)	0.020	0.010	mg/L	SM4500 P-B,E-2011	12/19/2023 7:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 005
Sample Description: WELL A8
Sample Type : GRAB
Sample Date / Time : 12/12/2023 @ 12:18

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	3.6	0.020	mg/L	SM4500 P E-2011	12/13/2023 23:15	JW
Total Phosphorus (as P)	3.7	0.010	mg/L	SM4500 P-B,E-2011	12/19/2023 7:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 006
Sample Description: WELL A9
Sample Type : GRAB
Sample Date / Time : 12/12/2023 @ 11:52

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	12/13/2023 23:15	JW
Total Phosphorus (as P)	0.025	0.010	mg/L	SM4500 P-B,E-2011	12/19/2023 7:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. Analytical Laboratories, Inc.

Laboratory Report

Woodard & Curran, Inc.

Work Order #: 2312-21038

Project Name: MONTHLY WELLS - MAIN PLANT WWTP

Sample Number: 007
Sample Description: WELL A10
Sample Type : GRAB
Sample Date / Time : 12/12/2023 @ 12:06

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	12/13/2023 23:15	JW
Total Phosphorus (as P)	<0.010	0.010	mg/L	SM4500 P-B,E-2011	12/19/2023 7:30	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 008
Sample Description: WELL A11
Sample Type : GRAB
Sample Date / Time : 12/12/2023 @ 13:23

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	<0.020	0.020	mg/L	SM4500 P E-2011	12/13/2023 23:15	JW
Total Phosphorus (as P)	0.017	0.010	mg/L	SM4500 P-B,E-2011	12/22/2023 7:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

Sample Number: 009
Sample Description: WELL A16
Sample Type : GRAB
Sample Date / Time : 12/12/2023 @ 12:49

PARAMETER	SAMPLE RESULTS	REP. LIMIT	UNITS	METHOD	DATE/TIME ANALYZED	ANALYST
Orthophosphate	0.082	0.020	mg/L	SM4500 P E-2011	12/13/2023 23:15	JW
Total Phosphorus (as P)	0.10	0.010	mg/L	SM4500 P-B,E-2011	12/22/2023 7:00	VC

Orthophosphate - Filtered upon receipt at the laboratory. The filtration should occur within fifteen minutes of sample collection.

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
12·12·23	10:48	Well (250 mL) 1S	G	1P	NP	GW		X
12·12·23	10:48	Well (250 mL)	G	1P	S	GW	X	
12·12·23	09:15	Well (250 mL) 4S	G	1P	NP	GW		X
12·12·23	09:15	Well (250 mL)	G	1P	S	GW	X	
12·12·23	10:17	Well (250 mL) 6D	G	1P	NP	GW		X
12·12·23	10:17	Well (250 mL)	G	1P	S	GW	X	
12·12·23	09:45	Well (250 mL) 6S	G	1P	NP	GW		X
12·12·23	09:45	Well (250 mL)	G	1P	S	GW	X	
1		Well (250 mL)	G	1P	NP	GW		X
		Well (250 mL)	G	1P	S	GW	X	

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly Wells – Main Plant WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	EMcNeil@woodardcurran.com rscott@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	12·13·23	14:52	[signature] * picked up from judge. NB 12/14	12/13/23	1630*
RLL	12/13/23	~~1700~~ 1900 RLC	[signature]	12/13/23	1900

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	Project Comments
MCP Standard _____	Email results to sdriscoll@woodardcurran.com; jfreemand@woodardcurran.com; kfontaine@woodardcurran.com; & rscott@woodardcurran.com
MWRA eSMART	
State Report & Upload	

IN 5.5°C

Lab Use Only		
✓	Sample Pick Up Only	
	RIAL sampled; attach field hours	
✓	Received on Ice	No Ice
Workorder No: 2312-21038		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

CS 12/13/23

R.I. ANALYTICAL
Specialists in Environmental Services

CHAIN OF CUSTODY RECORD

41 Illinois Avenue
Warwick, RI 02888-3007
Tel: 800-937-2580

131 Coolidge St., Suite 105
Hudson, MA 01749-1331
Tel: 800-937-2580

10-14-20

Date Collected	Time Collected	Field Sample Identification	Grab or Composite	# of Containers & Type C	Preservation Code P	Matrix Code M	Total Phosphorus	Ortho Phosphate
12·12·23	12:18	Well (250 mL) A8	G	1P	NP	GW		X
12·12·23	12:18	Well (250 mL)	G	1P	S	GW	X	
12·12·23	11:52	Well (250 mL) A9	G	1P	NP	GW		X
12·12·23	11:52	Well (250 mL)	G	1P	S	GW	X	
12·12·23	12:06	Well (250 mL) A10	G	1P	NP	GW		X
12·12·23	12:06	Well (250 mL)	G	1P	S	GW	X	
12·12·23	13:23	Well (250 mL) A11	G	1P	NP	GW		X
12·12·23	13:23	Well (250 mL)	G	1P	S	GW	X	
12·12·23	12:49	Well (250 mL) A16	G	1P	NP	GW		X
12·12·23	12:49	Well (250 mL)	G	1P	S	GW	X	

Client Information		Project Information			
Company Name:	Woodard & Curran	Project Name:	Monthly Wells – Main Plant WWTP		
Address:	131 Camelot Drive	P.O. Number:		Project Number:	
City / State / Zip:	Plymouth, MA 02360	Report To:	Sean Driscoll	Cell: 401.578.9976	Phone:
Main Telephone:	508-830-4159	Sampled by:		Email addresses	EMcNeil@woodardcurran.com rscott@woodardcurran.com
Contact Person:	Sean Driscoll	Quote No:			

Relinquished By Signatures	Date	Time	Received By Signatures	Date	Time
[signature]	12/13/23	14:52	RW *counter picked up from fridge [signature] 12/14/23	12/13/23	1630*
RW	12/13/23	1700 RK	1900 Kathleen Phelan	12/13/23	1900

Turn Around Time			
X	Normal	X	EMAIL Report
X	5-7 Business days		
	2 Business Days		

Reporting Options	Project Comments
MCP Standard _____	Email results to sdriscoll@woodardcurran.com; jfreemand@woodardcurran.com; kfontaine@woodardcurran.com; & rscott@woodardcurran.com
MWRA eSMART	
State Report & Upload	

RV
5.5°C

Lab Use Only		
✓	Sample Pick Up Only	
	RIAL sampled; attach field hours	
✓	Received on Ice	No Ice
Workorder No: 2312-21038		

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, St=Sterile Preservatives: A=Ascorbic Acid, NH4=NH_4Cl, DI=DI-H_2O, H=HCl, M=MeOH, N=HNO_3, NP=None, S=H_2SO_4, SH=NaOH, T=$Na_2S_2O_3$, Z=ZnOAc
Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=_____

CS 12/13/23