

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	3/13/2019	2:35 PM	2	.06	< 0.01	1.2	< 0.1
ABT-077	Rte 27/USGS, Maynard	3/13/2019	4:32 PM	1	.06	< 0.01	1.1	< 0.1
CND-009	Rogers St, Lowell	3/13/2019	12:09 PM	2	0.07	< 0.01	0.91	< 0.1
CND-161	Lowell Rd bridge, Concord	3/13/2019	11:11 AM	< 1	0.04	< 0.01	0.76	< 0.1
SUD-005	Rte 62 Boat House, Concord	3/13/2019	10:45 AM	< 1	0.05	< 0.01	0.75	< 0.1

Summary Statistics for Mainstem Sites

Maximum	2	0.07	< 0.01	1.2	< 0.1
Minimum	< 1	0.04	< 0.01	0.75	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAN-013	Danforth Br, Hudson	3/13/2019	3:36 PM	< 1	0.05	< 0.01	0.31	< 0.1
ELZ-004	Elizabeth Br, Stow	3/13/2019	4:12 PM	< 1	0.07	< 0.01	0.42	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	3/13/2019	2:19 PM	< 1	.05	< 0.01	.64	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	3/13/2019	11:42 AM	2	0.08	< 0.01	0.62	0.2

Summary Statistics for Tributary Sites

Maximum	2	0.08	< 0.01	0.64	0.2
Minimum	< 1	0.05	< 0.01	0.31	< 0.1

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chloride

Mainstem				Chloride
Site Number	Location	Date	Time	(mg/L)
ABT-026	Rte 2, Concord	3/13/2019	2:35 PM	231
ABT-077	Rte 27/USGS, Maynard	3/13/2019	4:32 PM	229
CND-009	Rogers St, Lowell	3/13/2019	12:09 PM	228
CND-161	Lowell Rd bridge, Concord	3/13/2019	11:11 AM	207
SUD-005	Rte 62 Boat House, Concord	3/13/2019	10:45 AM	206

Summary Statistics for Mainstem Sites

Maximum	231
Minimum	206

Tributary				Chloride
Site Number	Location	Date	Time	(mg/L)
DAN-013	Danforth Br, Hudson	3/13/2019	3:36 PM	70
ELZ-004	Elizabeth Br, Stow	3/13/2019	4:12 PM	119
NSH-002	Nashoba, Commonwealth, W. Con	3/13/2019	2:19 PM	214
NSH-047	Nashoba, Wheeler Ln, Acton	3/13/2019	11:42 AM	232

Summary Statistics for Tributary Sites

Maximum	232
Minimum	70

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	3/13/2019	2:35 PM	3.17	109.4	14.63	773	7.31
ABT-077	Rte 27/USGS, Maynard	3/13/2019	4:32 PM	3.47	110.5	14.66	776	7.09
CND-009	Rogers St, Lowell	3/13/2019	12:09 PM	2.61	108.3	14.71	684	6.97
CND-161	Lowell Rd bridge, Concord	3/13/2019	11:11 AM	1.94	94.9	13.13	626	7.04
SUD-005	Rte 62 Boat House, Concord	3/13/2019	10:45 AM	3.01	98.6	13.12	624	7.13

Summary Statistics for Mainstem Sites

Maximum	3.47	110.5	14.71	776	7.31
Minimum	1.94	94.9	13.12	624	6.97

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	3/13/2019	3:36 PM	0.31	104.4	15.12	294	7.42
ELZ-004	Elizabeth Br, Stow	3/13/2019	4:12 PM	4.85	107	13.7	435	7.23
NSH-002	Nashoba, Commonwealth, W. Concor	3/13/2019	2:19 PM	1.66	100.3	13.97	715	7.22
NSH-047	Nashoba, Wheeler Ln, Acton	3/13/2019	11:42 AM	0.18	89.3	13.03	691	6.84

Summary Statistics for Tributary Sites

Maximum	4.85	107.0	15.12	715	7.42
Minimum	0.18	89.3	13.03	294	6.84

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-301	Rte 9, Westboro	3/14/2019	12:45 PM	2	0.15	0.07	3.4	< 0.1
ABT-312	Mill Road, Westboro	3/14/2019	12:25 PM	6	0.03	< 0.01	0.21	< 0.1
SUD-144	Sudbury Landing, Framingham	3/14/2019	1:20 PM	1	0.04	< 0.01	0.52	< 0.1

Summary Statistics for Mainstem Sites

Maximum	6	0.15	0.07	3.4	< 0.1
Minimum	1	0.03	< 0.01	0.21	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
HOP-011	Hop Br, Northboro	3/14/2019	12:15 PM	1	0.07	< 0.01	0.72	< 0.1
NTH-009	North Br, Berlin	3/14/2019	11:30 AM	3	0.07	< 0.01	0.44	< 0.1

Summary Statistics for Tributary Sites

Maximum	3	0.07	< 0.01	0.72	< 0.1
Minimum	1	0.07	< 0.01	0.44	< 0.1

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chloride

Mainstem				Chloride
Site Number	Location	Date	Time	(mg/L)
ABT-301	Rte 9, Westboro	3/14/2019	12:45 PM	202
ABT-312	Mill Road, Westboro	3/14/2019	12:25 PM	69.1
SUD-144	Sudbury Landing, Framingham	3/14/2019	1:20 PM	214

Summary Statistics for Mainstem Sites

Maximum	214
Minimum	69.1

Tributary				Chloride
Site Number	Location	Date	Time	(mg/L)
HOP-011	Hop Br, Northboro	3/14/2019	12:15 PM	294
NTH-009	North Br, Berlin	3/14/2019	11:30 AM	60.2

Summary Statistics for Tributary Sites

Maximum	294
Minimum	60.2

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-301	Rte 9, Westboro	3/14/2019	12:45 PM	6.66	110	13.43	749	6.94
ABT-312	Mill Road, Westboro	3/14/2019	12:25 PM	4.22	114.2	14.87	291	7.27
SUD-144	Sudbury Landing, Framingham	3/14/2019	1:20 PM	3.54	111	14.69	710	7.28

Summary Statistics for Mainstem Sites

Maximum	6.66	114.2	14.87	749	7.28
Minimum	3.54	110.0	13.43	291	6.94

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
HOP-011	Hop Br, Northboro	3/14/2019	12:15 PM	2.54	100.7	13.68	1084	6.86
NTH-009	North Br, Berlin	3/14/2019	11:30 AM	2.85	105.7	14.28	264	7.11

Summary Statistics for Tributary Sites

Maximum	2.85	105.7	14.28	1084	7.11
Minimum	2.54	100.7	13.68	264	6.86

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	5/19/2019	6:11 AM	4	0.03	0.02	0.62	< 0.1
ABT-077	Rte 27/USGS, Maynard	5/19/2019	7:55 AM	4	0.02	0.02	0.7	< 0.1
ABT-301	Rte 9, Westboro	5/19/2019	8:15 AM	4	0.04	0.01	1.9	< 0.1
ABT-312	Mill Road, Westboro	5/19/2019	7:55 AM	2	< 0.01	< 0.01	0.08	< 0.1
CND-009	Rogers St, Lowell	5/19/2019	6:49 AM	4	0.02	0.02	0.37	< 0.1
CND-161	Lowell Rd bridge, Concord	5/19/2019	6:45 AM	2	0.01	< 0.01	0.15	< 0.1
SUD-005	Rte 62 Boat House, Concord	5/19/2019	6:12 AM	2	< 0.01	< 0.01	0.15	< 0.1
SUD-064	Sherman Br Rd, Wayland	5/19/2019	6:38 AM	5	< 0.01	< 0.01	0.18	< 0.1
SUD-086	River Rd, Wayland	5/19/2019	7:05 AM	1	0.02	< 0.01	0.21	< 0.1
SUD-096	Rte 20, Wayland	5/19/2019	7:31 AM	2	0.02	< 0.01	0.27	< 0.1
SUD-144	Sudbury Landing, Framingham	5/19/2019	8:07 AM	2	0.01	< 0.01	0.29	< 0.1

Summary Statistics for Mainstem Sites

Maximum	5	0.04	0.02	1.9	< 0.1
Minimum	1	< 0.01	< 0.01	0.08	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAN-013	Danforth Br, Hudson	5/19/2019	6:30 AM	4	0.02	0.01	0.07	< 0.1
ELZ-004	Elizabeth Br, Stow	5/19/2019	7:22 AM	2	0.01	0.01	0.2	< 0.1
HBS-016	Hop Br, Sudbury	5/19/2019	7:47 AM	< 1	< 0.01	< 0.01	0.72	< 0.1
HOP-011	Hop Br, Northboro	5/19/2019	7:30 AM	2	0.03	0.01	0.33	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	5/19/2019	7:31 AM	2	0.01	0.01	0.34	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	5/19/2019	7:10 AM	2	0.02	0.01	0.31	< 0.1
NTH-009	North Br, Berlin	5/19/2019	6:55 AM	4	0.07	0.01	0.2	< 0.1
RVM-005	River Mead, Thorndike, Lowell	5/19/2019	7:08 AM	4	0.02	0.01	0.25	< 0.1

Summary Statistics for Tributary Sites

Maximum	4	0.07	0.01	0.72	< 0.1
Minimum	< 1	< 0.01	< 0.01	0.07	< 0.1

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	5/19/2019	6:11 AM	15.48	102.5	10.25	444	6.95
ABT-077	Rte 27/USGS, Maynard	5/19/2019	7:55 AM	15.7	102.1	10.13	478	7.12
ABT-095	White Pond Rd, Stow	5/19/2019	7:35 AM	15.36	91	9.09	408	6.94
ABT-134	Sudbury Rd, Stow	5/19/2019	7:05 AM	15.32	91.9	9.18	544	7.11
ABT-162	Cox St, Hudson	5/19/2019	6:50 AM	15.68	98.6	9.78	554	7.07
ABT-301	Rte 9, Westboro	5/19/2019	8:15 AM	14.86	98.3	9.92	578	7.06
ABT-312	Mill Road, Westboro	5/19/2019	7:55 AM	15.73	103.6	10.28	227	7.5
CND-009	Rogers St, Lowell	5/19/2019	6:49 AM	15.19	97.1	9.73	470	7.08
CND-161	Lowell Rd bridge, Concord	5/19/2019	6:45 AM	15.68	89.4	8.93	445	6.73
SUD-005	Rte 62 Boat House, Concord	5/19/2019	6:12 AM	15.9	73.8	7.29	456	6.89
SUD-064	Sherman Br Rd, Wayland	5/19/2019	6:38 AM	16.65	76	7.52	463	7.02
SUD-086	River Rd, Wayland	5/19/2019	7:05 AM	15.96	75.8	7.53	471	6.95
SUD-096	Rte 20, Wayland	5/19/2019	7:31 AM	16.01	78.4	7.73	475	6.97
SUD-144	Sudbury Landing, Framingham	5/19/2019	8:07 AM	14.82	87.4	8.84	464	7.16

Summary Statistics for Mainstem Sites

Maximum	16.65	103.6	10.28	578	7.50
Minimum	14.82	73.8	7.29	227	6.73

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	5/19/2019	6:30 AM	15.02	99.8	10.06	219	7.14
ELZ-004	Elizabeth Br, Stow	5/19/2019	7:22 AM	14.91	80.2	8.09	314	7.01
HBS-016	Hop Br, Sudbury	5/19/2019	7:47 AM	15.09	42.8	4.19	438	6.82
HOP-011	Hop Br, Northboro	5/19/2019	7:30 AM	14.74	115.8	11.72	694	7.23
NSH-002	Nashoba, Commonwealth, W. Concor	5/19/2019	7:31 AM	15.42	100.9	10.07	402	6.81
NSH-047	Nashoba, Wheeler Ln, Acton	5/19/2019	7:10 AM	14.96	88.4	8.91	507	6.66
NTH-009	North Br, Berlin	5/19/2019	6:55 AM	13	101.5	10.69	218	7.56
RVM-005	River Mead, Thorndike, Lowell	5/19/2019	7:08 AM	16.54	97.7	9.51	668	7

Summary Statistics for Tributary Sites

Maximum	16.54	115.8	11.72	694	7.56
Minimum	13.00	42.8	4.19	218	6.66

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	6/16/2019	6:33 AM	4	0.06	0.02	1.1	< 0.1
ABT-062	Rte 62, Acton	6/16/2019	6:26 AM	4	0.08	0.02	1.4	0.18
ABT-077	Rte 27/USGS, Maynard	6/16/2019	8:10 AM	4	0.1	0.02	1.2	< 0.1
ABT-144	Rte 62, Stow	6/16/2019	7:08 AM	2	0.06	0.02	2.1	0.11
ABT-237	Robin Hill Rd, Marlboro	6/16/2019	7:09 AM	4	0.04	0.02	2	< 0.1
ABT-301	Rte 9, Westboro	6/16/2019	8:20 AM	6	0.09	0.02	3.7	< 0.1
ABT-312	Mill Road, Westboro	6/16/2019	8:00 AM	2	0.02	< 0.01	< 0.05	< 0.1
CND-009	Rogers St, Lowell	6/16/2019	7:44 AM	6	0.08	0.02	0.56	< 0.1
CND-045	Lowell St, Billerica	6/16/2019	7:11 AM	28	0.18	0.02	0.43	< 0.1
CND-110	Rte 225, Bedford	6/16/2019	6:37 AM	4	0.08	0.02	0.44	< 0.1
CND-161	Lowell Rd bridge, Concord	6/16/2019	6:54 AM	42	0.06	0.02	< 0.05	< 0.1
SUD-005	Rte 62 Boat House, Concord	6/16/2019	6:09 AM	3	0.05	0.02	< 0.05	< 0.1
SUD-064	Sherman Br Rd, Wayland	6/16/2019	7:50 AM	1	0.08	0.02	0.06	< 0.1
SUD-086	River Rd, Wayland	6/16/2019	8:07 AM	2	0.07	0.02	0.13	< 0.1
SUD-096	Rte 20, Wayland	6/16/2019	6:25 AM	2	0.06	0.02	0.15	< 0.1
SUD-144	Sudbury Landing, Framingham	6/16/2019	7:19 AM	3	0.1	< 0.01	0.2	< 0.1

Summary Statistics for Mainstem Sites

Maximum	42	0.18	0.02	3.7	0.18
Minimum	1	0.02	< 0.01	< 0.05	< 0.1

OARS

na = not assessed; nr = not reported

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Tributary				TSS	TP	ortho - P	NO3	NH3	
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
DAN-013	Danforth Br, Hudson	6/16/2019	6:25 AM	4	0.07	0.03	0.11	< 0.1	
ELZ-004	Elizabeth Br, Stow	6/16/2019	7:42 AM	2	0.08	0.02	0.21	< 0.1	
HBS-016	Hop Br, Sudbury	6/16/2019	7:00 AM	19	0.15	0.04	0.59	< 0.1	
HOP-011	Hop Br, Northboro	6/16/2019	7:35 AM	2	0.12	0.03	0.37	< 0.1	
NSH-002	Nashoba, Commonwealth, W. Con	6/16/2019	7:35 AM	2	0.05	0.02	0.36	< 0.1	
NSH-047	Nashoba, Wheeler Ln, Acton	6/16/2019	7:20 AM	4	0.17	0.03	0.49	< 0.1	
NTH-009	North Br, Berlin	6/16/2019	6:44 AM	4	0.06	0.01	0.28	< 0.1	
RVM-005	River Mead, Thorndike, Lowell	6/16/2019	8:08 AM	6	0.13	0.03	0.29	< 0.1	
Summary Statistics for Tributary Sites									
				Maximum	19	0.17	0.04	0.59	< 0.1
				Minimum	2	0.05	0.01	0.11	< 0.1

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	6/16/2019	6:33 AM	20.34	90.2	8.22	658	7.23
ABT-062	Rte 62, Acton	6/16/2019	6:26 AM	20.17	100	9.12	699	7.25
ABT-077	Rte 27/USGS, Maynard	6/16/2019	8:10 AM	19.84	94.4	8.59	686	7.16
ABT-095	White Pond Rd, Stow	6/16/2019	7:56 AM	20.04	103.2	9.35	671	7.14
ABT-134	Sudbury Rd, Stow	6/16/2019	7:26 AM	19.22	86.3	7.95	710	7.17
ABT-144	Rte 62, Stow	6/16/2019	7:08 AM	18.91	97.4	9.03	722	7.19
ABT-162	Cox St, Hudson	6/16/2019	6:51 AM	18.49	90.3	8.43	709	6.99
ABT-237	Robin Hill Rd, Marlboro	6/16/2019	7:09 AM	18.14	80.4	7.57	829	NR
ABT-301	Rte 9, Westboro	6/16/2019	8:20 AM	18.43	82.1	7.69	801	NR
ABT-312	Mill Road, Westboro	6/16/2019	8:00 AM	19.92	86.2	7.84	250	NR
CND-009	Rogers St, Lowell	6/16/2019	7:44 AM	20.89	91.8	8.19	558	7.1
CND-045	Lowell St, Billerica	6/16/2019	7:11 AM	20.73	90.8	8.13	525	7.08
CND-110	Rte 225, Bedford	6/16/2019	6:37 AM	20.63	67.4	6.04	531	6.95
CND-161	Lowell Rd bridge, Concord	6/16/2019	6:54 AM	20.4	57.1	5.25	509	6.84
SUD-005	Rte 62 Boat House, Concord	6/16/2019	6:09 AM	20.29	52.4	4.73	460	6.8
SUD-064	Sherman Br Rd, Wayland	6/16/2019	7:50 AM	20.29	23.7	2.14	466	6.66
SUD-086	River Rd, Wayland	6/16/2019	8:07 AM	20.46	41	3.76	471	6.7
SUD-096	Rte 20, Wayland	6/16/2019	6:25 AM	20.6	50.9	4.61	472	6.86
SUD-144	Sudbury Landing, Framingham	6/16/2019	7:19 AM	20.38	107.5	9.69	455	7.15

Summary Statistics for Mainstem Sites

Maximum	20.89	107.5	9.69	829	7.25
Minimum	18.14	23.7	2.14	250	6.66

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	6/16/2019	6:25 AM	18.69	96	8.89	274	7.34
ELZ-004	Elizabeth Br, Stow	6/16/2019	7:42 AM	18.73	63.2	5.58	372	7.15
HBS-016	Hop Br, Sudbury	6/16/2019	7:00 AM	19.25	30.1	2.77	491	6.77
HOP-011	Hop Br, Northboro	6/16/2019	7:35 AM	17.95	93.4	8.83	706	NR
NSH-002	Nashoba, Commonwealth, W. Concor	6/16/2019	7:35 AM	20.33	92.8	8.48	508	6.94
NSH-047	Nashoba, Wheeler Ln, Acton	6/16/2019	7:20 AM	19.17	77.4	7.21	610	6.82
NTH-009	North Br, Berlin	6/16/2019	6:44 AM	17.3	88.8	8.52	257	NR
RVM-005	River Mead, Thorndike, Lowell	6/16/2019	8:08 AM	19.82	94	8.57	712	7.04

Summary Statistics for Tributary Sites

Maximum	20.33	96.0	8.89	712	7.34
Minimum	17.30	30.1	2.77	257	6.77

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chlorophyll a

Mainstem				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
SUD-005	Rte 62 Boat House, Concord	6/26/2019	9:22 AM	5.1
SUD-064	Sherman Br Rd, Wayland	6/26/2019	8:55 AM	< 2
SUD-086	River Rd, Wayland	6/26/2019	8:24 AM	2.89
SUD-096	Rte 20, Wayland	6/26/2019	10:55 AM	3.06
SUD-144	Sudbury Landing, Framingham	6/26/2019	11:25 AM	5

Summary Statistics for Mainstem Sites

Maximum	5.1
Minimum	< 2

Tributary				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
HBS-016	Hop Br, Sudbury	6/26/2019	7:56 AM	< 2

Summary Statistics for Tributary Sites

Maximum	< 2
Minimum	< 2

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	7/7/2019	6:35 AM	4	< 0.01	< 0.01	0.66	< 0.1
ABT-062	Rte 62, Acton	7/7/2019	6:10 AM	< 1	< 0.01	< 0.01	1.5	< 0.1
ABT-077	Rte 27/USGS, Maynard	7/7/2019	8:07 AM	2	< 0.01	< 0.01	1	< 0.1
ABT-144	Rte 62, Stow	7/7/2019	7:01 AM	3	0.08	< 0.01	2.3	< 0.1
ABT-237	Robin Hill Rd, Marlboro	7/7/2019	7:10 AM	14	0.12	0.02	1.8	< 0.1
ABT-301	Rte 9, Westboro	7/7/2019	8:20 AM	2	0.03	< 0.01	3	< 0.1
ABT-312	Mill Road, Westboro	7/7/2019	8:00 AM	3	< 0.01	< 0.01	< 0.05	< 0.1
CND-009	Rogers St, Lowell	7/7/2019	7:25 AM	6	0.03	< 0.01	0.41	< 0.1
CND-045	Lowell St, Billerica	7/7/2019	6:50 AM	6	< 0.01	< 0.01	0.19	< 0.1
CND-110	Rte 225, Bedford	7/7/2019	6:30 AM	6	< 0.01	< 0.01	0.23	< 0.1
CND-161	Lowell Rd bridge, Concord	7/7/2019	6:50 AM	2	< 0.01	< 0.01	< 0.05	< 0.1
SUD-005	Rte 62 Boat House, Concord	7/7/2019	6:05 AM	4	< 0.01	< 0.01	< 0.05	< 0.1
SUD-064	Sherman Br Rd, Wayland	7/7/2019	6:12 AM	5	< 0.01	< 0.01	< 0.05	< 0.1
SUD-086	River Rd, Wayland	7/7/2019	6:45 AM	3	0.05	0.02	0.16	< 0.1
SUD-096	Rte 20, Wayland	7/7/2019	7:03 AM	5	0.06	< 0.01	0.16	< 0.1
SUD-144	Sudbury Landing, Framingham	7/7/2019	7:58 AM	4	0.06	< 0.01	0.2	< 0.1

Summary Statistics for Mainstem Sites

Maximum	14	0.12	0.02	3	< 0.1
Minimum	< 1	< 0.01	< 0.01	< 0.05	< 0.1

OARS

na = not assessed; nr = not reported

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Tributary				TSS	TP	ortho - P	NO3	NH3	
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
DAN-013	Danforth Br, Hudson	7/7/2019	6:20 AM	20	0.06	0.01	0.27	< 0.1	
ELZ-004	Elizabeth Br, Stow	7/7/2019	7:30 AM	11	0.12	< 0.01	0.25	< 0.1	
HBS-016	Hop Br, Sudbury	7/7/2019	7:28 AM	6	0.18	0.12	0.39	0.47	
HOP-011	Hop Br, Northboro	7/7/2019	7:30 AM	10	0.02	< 0.01	0.25	< 0.1	
NSH-002	Nashoba, Commonwealth, W. Con	7/7/2019	7:48 AM	4	< 0.01	< 0.01	0.15	< 0.1	
NSH-047	Nashoba, Wheeler Ln, Acton	7/7/2019	7:25 AM	2	0.02	0.02	0.69	0.16	
NTH-009	North Br, Berlin	7/7/2019	6:45 AM	4	< 0.01	< 0.01	0.29	< 0.1	
RVM-005	River Mead, Thorndike, Lowell	7/7/2019	7:50 AM	4	0.03	0.02	0.44	< 0.1	
Summary Statistics for Tributary Sites									
				Maximum	20	0.18	0.12	0.69	0.47
				Minimum	2	< 0.01	< 0.01	0.15	< 0.1

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	7/7/2019	6:35 AM	25.39	78.8	6.45	667	7.45
ABT-062	Rte 62, Acton	7/7/2019	6:10 AM	26.92	101.9	8.11	753	7.97
ABT-077	Rte 27/USGS, Maynard	7/7/2019	8:07 AM	26.14	72.5	5.83	774	7.36
ABT-095	White Pond Rd, Stow	7/7/2019	7:50 AM	23.98	27	2.27	620	7.02
ABT-134	Sudbury Rd, Stow	7/7/2019	7:13 AM	26.54	56.7	4.26	963	7.4
ABT-144	Rte 62, Stow	7/7/2019	7:01 AM	26.12	74.4	6.06	892	7.42
ABT-162	Cox St, Hudson	7/7/2019	6:46 AM	24.97	61.9	5.1	968	7.24
ABT-237	Robin Hill Rd, Marlboro	7/7/2019	7:10 AM	22.94	71.7	6.14	861	7.08
ABT-301	Rte 9, Westboro	7/7/2019	8:20 AM	22.22	64.1	5.56	1264	6.64
ABT-312	Mill Road, Westboro	7/7/2019	8:00 AM	26.4	87.5	7.05	251	7.18
CND-009	Rogers St, Lowell	7/7/2019	7:25 AM	26.48	92.8	7.46	562	7.22
CND-045	Lowell St, Billerica	7/7/2019	6:50 AM	27.2	88.4	7.01	510	7.13
CND-110	Rte 225, Bedford	7/7/2019	6:30 AM	27.07	61.1	4.86	520	6.9
CND-161	Lowell Rd bridge, Concord	7/7/2019	6:50 AM	26.2	54.1	4.34	525	6.93
SUD-005	Rte 62 Boat House, Concord	7/7/2019	6:05 AM	26.8	42.9	3.43	479	6.75
SUD-064	Sherman Br Rd, Wayland	7/7/2019	6:12 AM	26.25	23.1	1.82	466	7.76
SUD-086	River Rd, Wayland	7/7/2019	6:45 AM	25.9	38	3.03	422	7.66
SUD-096	Rte 20, Wayland	7/7/2019	7:03 AM	25.58	40	3.17	403	7.62
SUD-144	Sudbury Landing, Framingham	7/7/2019	7:58 AM	25.35	95.8	7.86	354	7.52

Summary Statistics for Mainstem Sites

Maximum	27.20	101.9	8.11	1264	7.97
Minimum	22.22	23.1	1.82	251	6.64

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	7/7/2019	6:20 AM	23.59	95.8	8.18	277	7.47
ELZ-004	Elizabeth Br, Stow	7/7/2019	7:30 AM	24.25	45.2	3.81	428	7.14
HBS-016	Hop Br, Sudbury	7/7/2019	7:28 AM	23.67	16.4	1.32	411	7.3
HOP-011	Hop Br, Northboro	7/7/2019	7:30 AM	22.13	65.2	5.68	327	6.93
NSH-002	Nashoba, Commonwealth, W. Concor	7/7/2019	7:48 AM	25.82	88.4	7.19	558	7.28
NSH-047	Nashoba, Wheeler Ln, Acton	7/7/2019	7:25 AM	22.79	69.6	5.98	600	7.03
NTH-009	North Br, Berlin	7/7/2019	6:45 AM	21.79	87.6	7.67	284	7.52
RVM-005	River Mead, Thorndike, Lowell	7/7/2019	7:50 AM	23.59	84.1	7.11	884	6.93

Summary Statistics for Tributary Sites

Maximum	25.82	95.8	8.18	884	7.52
Minimum	21.79	16.4	1.32	277	6.93

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chlorophyll a

Mainstem				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
SUD-005	Rte 62 Boat House, Concord	7/29/2019	7:53 AM	6.27
SUD-064	Sherman Br Rd, Wayland	7/29/2019	7:25 AM	3.57
SUD-086	River Rd, Wayland	7/29/2019	7:01 AM	2.78
SUD-096	Rte 20, Wayland	7/29/2019	7:15 AM	3.75
SUD-144	Sudbury Landing, Framingham	7/29/2019	9:15 AM	7.93

Summary Statistics for Mainstem Sites

Maximum	7.93
Minimum	2.78

Tributary				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
HBS-016	Hop Br, Sudbury	7/29/2019	6:41 AM	6.16

Summary Statistics for Tributary Sites

Maximum	6.16
Minimum	6.16

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3	
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
ABT-026	Rte 2, Concord	8/11/2019	6:21 AM	2	0.03	0.02	1.1	< 0.1	
ABT-062	Rte 62, Acton	8/11/2019	6:02 AM	2	0.06	0.02	1.2	< 0.1	
ABT-077	Rte 27/USGS, Maynard	8/11/2019	8:06 AM	1	0.02	0.02	0.78	< 0.1	
ABT-144	Rte 62, Stow	8/11/2019	6:57 AM	1	0.06	0.06	1.1	< 0.1	
ABT-237	Robin Hill Rd, Marlboro	8/11/2019	7:44 AM	2	0.10	0.02	1.7	< 0.1	
ABT-301	Rte 9, Westboro	8/11/2019	7:01 AM	3	0.06	0.01	3	< 0.1	
ABT-312	Mill Road, Westboro	8/11/2019	7:18 AM	< 1	< 0.01	< 0.01	< 0.05	< 0.1	
CND-009	Rogers St, Lowell	8/11/2019	8:10 AM	6	0.08	0.02	0.46	< 0.1	
CND-045	Lowell St, Billerica	8/11/2019	7:35 AM	9	0.06	0.02	0.39	< 0.1	
CND-110	Rte 225, Bedford	8/11/2019	7:00 AM	5	0.05	0.02	0.7	< 0.1	
CND-161	Lowell Rd bridge, Concord	8/11/2019	6:42 AM	4	0.03	0.02	0.19	< 0.1	
SUD-005	Rte 62 Boat House, Concord	8/11/2019	6:30 AM	6	0.04	0.02	0.09	< 0.1	
SUD-064	Sherman Br Rd, Wayland	8/11/2019	6:54 AM	3	0.06	0.03	< 0.05	< 0.1	
SUD-086	River Rd, Wayland	8/11/2019	6:28 AM	2	0.07	0.03	< 0.05	< 0.1	
SUD-096	Rte 20, Wayland	8/11/2019	7:14 AM	3	0.05	0.02	< 0.05	< 0.1	
SUD-144	Sudbury Landing, Framingham	8/11/2019	7:58 AM	6	0.1	0.02	< 0.05	< 0.1	
Summary Statistics for Mainstem Sites									
				Maximum	9	0.1	0.06	3	< 0.1
				Minimum	< 1	< 0.01	< 0.01	< 0.05	< 0.1

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Tributary				TSS	TP	ortho - P	NO3	NH3	
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
DAN-013	Danforth Br, Hudson	8/11/2019	6:23 AM	2	0.16	0.03	0.11	< 0.1	
ELZ-004	Elizabeth Br, Stow	8/11/2019	7:37 AM	< 1	0.02	0.02	0.13	< 0.1	
HBS-016	Hop Br, Sudbury	8/11/2019	7:31 AM	10	0.18	0.07	0.38	0.1	
HOP-011	Hop Br, Northboro	8/11/2019	6:46 AM	< 1	0.05	0.02	0.16	< 0.1	
NSH-002	Nashoba, Commonwealth, W. Con	8/11/2019	7:37 AM	< 1	0.04	0.02	0.12	< 0.1	
NSH-047	Nashoba, Wheeler Ln, Acton	8/11/2019	7:13 AM	2	0.05	0.03	0.3	< 0.1	
NTH-009	North Br, Berlin	8/11/2019	8:02 AM	1	0.04	0.01	0.29	< 0.1	
RVM-005	River Mead, Thorndike, Lowell	8/11/2019	8:25 AM	4	0.16	0.02	0.18	0.1	
Summary Statistics for Tributary Sites									
				Maximum	10	0.18	0.07	0.38	0.1
				Minimum	< 1	0.02	0.01	0.11	< 0.1

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chloride

Mainstem				Chloride
Site Number	Location	Date	Time	(mg/L)
ABT-026	Rte 2, Concord	8/11/2019	6:21 AM	146
ABT-077	Rte 27/USGS, Maynard	8/11/2019	8:06 AM	140
ABT-237	Robin Hill Rd, Marlboro	8/11/2019	7:44 AM	151
ABT-301	Rte 9, Westboro	8/11/2019	7:01 AM	108
ABT-312	Mill Road, Westboro	8/11/2019	7:18 AM	52.6
CND-009	Rogers St, Lowell	8/11/2019	8:10 AM	150
CND-161	Lowell Rd bridge, Concord	8/11/2019	6:42 AM	138
SUD-005	Rte 62 Boat House, Concord	8/11/2019	6:30 AM	133
SUD-144	Sudbury Landing, Framingham	8/11/2019	7:58 AM	128

Summary Statistics for Mainstem Sites

Maximum	151
Minimum	52.6

Tributary				Chloride
Site Number	Location	Date	Time	(mg/L)
DAN-013	Danforth Br, Hudson	8/11/2019	6:23 AM	44.2
ELZ-004	Elizabeth Br, Stow	8/11/2019	7:37 AM	90
HOP-011	Hop Br, Northboro	8/11/2019	6:46 AM	154
NSH-002	Nashoba, Commonwealth, W. Con	8/11/2019	7:37 AM	119
NSH-047	Nashoba, Wheeler Ln, Acton	8/11/2019	7:13 AM	171
NTH-009	North Br, Berlin	8/11/2019	8:02 AM	61.7
RVM-005	River Mead, Thorndike, Lowell	8/11/2019	8:25 AM	219

Summary Statistics for Tributary Sites

Maximum	219
Minimum	44.2

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	8/11/2019	6:21 AM	22.28	80.4	6.98	560	7.18
ABT-062	Rte 62, Acton	8/11/2019	6:02 AM	23.01	96.2	8.24	565	7.4
ABT-077	Rte 27/USGS, Maynard	8/11/2019	8:06 AM	22.62	95.2	8.19	546	7.29
ABT-095	White Pond Rd, Stow	8/11/2019	7:50 AM	23.15	87	7.4	527	7.04
ABT-134	Sudbury Rd, Stow	8/11/2019	7:20 AM	21.95	83	7.32	532	6.98
ABT-144	Rte 62, Stow	8/11/2019	6:57 AM	21.75	NR	NR	560	7.26
ABT-162	Cox St, Hudson	8/11/2019	6:44 AM	21.49	106.7	9.19	564	7.11
ABT-237	Robin Hill Rd, Marlboro	8/11/2019	7:44 AM	19.65	76.2	6.97	611	7.11
ABT-301	Rte 9, Westboro	8/11/2019	7:01 AM	20.71	79.8	7.15	512	7.19
ABT-312	Mill Road, Westboro	8/11/2019	7:18 AM	23.07	90	7.72	243	7.48
CND-009	Rogers St, Lowell	8/11/2019	8:10 AM	23.56	88.9	7.51	560	7.12
CND-045	Lowell St, Billerica	8/11/2019	7:35 AM	23.8	92.4	7.79	531	7.09
CND-110	Rte 225, Bedford	8/11/2019	7:00 AM	23.71	73.8	6.23	559	7.02
CND-161	Lowell Rd bridge, Concord	8/11/2019	6:42 AM	23.26	64.4	5.48	531	6.9
SUD-005	Rte 62 Boat House, Concord	8/11/2019	6:30 AM	23.91	55.1	4.64	511	6.78
SUD-064	Sherman Br Rd, Wayland	8/11/2019	6:54 AM	22.13	23.2	2.02	478	6.94
SUD-086	River Rd, Wayland	8/11/2019	6:28 AM	22.56	37.5	3.24	474	7.25
SUD-096	Rte 20, Wayland	8/11/2019	7:14 AM	22.34	39.8	3.45	474	7.03
SUD-144	Sudbury Landing, Framingham	8/11/2019	7:58 AM	23.2	96.3	8.22	474	7.22

Summary Statistics for Mainstem Sites

Maximum	23.91	106.7	9.19	611	7.48
Minimum	19.65	106.7	2.02	243	6.78

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	8/11/2019	6:23 AM	18.99	97.6	9.07	224	7.42
ELZ-004	Elizabeth Br, Stow	8/11/2019	7:37 AM	20.75	78.8	7.13	364	6.63
HBS-016	Hop Br, Sudbury	8/11/2019	7:31 AM	19.49	19	1.74	489	6.77
HOP-011	Hop Br, Northboro	8/11/2019	6:46 AM	20.21	83.6	7.61	585	7.3
NSH-002	Nashoba, Commonwealth, W. Concor	8/11/2019	7:37 AM	22.15	73.4	6.39	446	6.8
NSH-047	Nashoba, Wheeler Ln, Acton	8/11/2019	7:13 AM	20.17	74.1	6.7	606	6.79
NTH-009	North Br, Berlin	8/11/2019	8:02 AM	17.17	90.3	8.69	289	7.15
RVM-005	River Mead, Thorndike, Lowell	8/11/2019	8:25 AM	19.78	91.4	8.33	746	7

Summary Statistics for Tributary Sites

Maximum	22.15	97.6	9.07	746	7.42
Minimum	17.17	19.0	1.74	224	6.63

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Chlorophyll a

Mainstem				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
SUD-005	Rte 62 Boat House, Concord	8/19/2019	8:05 AM	10.4
SUD-064	Sherman Br Rd, Wayland	8/19/2019	7:30 AM	2.77
SUD-086	River Rd, Wayland	8/19/2019	7:20 AM	55.8
SUD-096	Rte 20, Wayland	8/19/2019	7:15 AM	39.9
SUD-144	Sudbury Landing, Framingham	8/19/2019	6:45 AM	< 2

Summary Statistics for Mainstem Sites

Maximum	55.8
Minimum	< 2

Tributary				Chl a
Site Number	Location	Date	Time	($\mu\text{g/L}$)
HBS-016	Hop Br, Sudbury	8/19/2019	6:45 AM	6.75

Summary Statistics for Tributary Sites

Maximum	6.75
Minimum	6.75

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	9/22/2019	7:08 AM	< 1	< 0.01	< 0.01	2.2	< 0.1
ABT-077	Rte 27/USGS, Maynard	9/22/2019	8:59 AM	< 1	< 0.01	< 0.01	2.8	< 0.1
ABT-301	Rte 9, Westboro	9/22/2019	8:10 AM	< 1	0.03	< 0.01	13	< 0.1
ABT-312	Mill Road, Westboro	9/22/2019	8:30 AM	< 1	0.01	0.01	0.41	< 0.1
CND-009	Rogers St, Lowell	9/22/2019	8:01 AM	6	0.04	< 0.01	1.1	< 0.1
CND-161	Lowell Rd bridge, Concord	9/22/2019	7:19 AM	7	< 0.01	< 0.01	0.78	< 0.1
SUD-005	Rte 62 Boat House, Concord	9/22/2019	7:14 AM	2	0.02	0.01	0.55	0.18
SUD-064	Sherman Br Rd, Wayland	9/22/2019	7:15 AM	4	0.01	< 0.01	0.36	< 0.1
SUD-086	River Rd, Wayland	9/22/2019	7:35 AM	6	0.01	0.01	0.36	< 0.1
SUD-096	Rte 20, Wayland	9/22/2019	7:58 AM	4	0.03	0.01	0.36	< 0.1
SUD-144	Sudbury Landing, Framingham	9/22/2019	8:55 AM	< 1	< 0.01	< 0.01	0.13	< 0.1

Summary Statistics for Mainstem Sites

Maximum	7	0.04	0.01	13	0.18
Minimum	< 1	< 0.01	< 0.01	0.13	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAN-013	Danforth Br, Hudson	9/22/2019	7:25 AM	9	0.04	0.01	0.13	< 0.1
ELZ-004	Elizabeth Br, Stow	9/22/2019	8:29 AM	2	0.01	< 0.01	0.22	< 0.1
HBS-016	Hop Br, Sudbury	9/22/2019	8:20 AM	2	0.05	0.03	1.6	< 0.1
HOP-011	Hop Br, Northboro	9/22/2019	7:49 AM	2	< 0.01	< 0.01	0.16	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	9/22/2019	9:00 AM	< 1	< 0.01	< 0.01	0.11	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	9/22/2019	8:08 AM	4	< 0.01	< 0.01	0.32	< 0.1
NTH-009	North Br, Berlin	9/22/2019	9:05 AM	6	< 0.01	< 0.01	0.34	< 0.1
RVM-005	River Mead, Thorndike, Lowell	9/22/2019	8:28 AM	10	< 0.01	< 0.01	< 0.05	< 0.1

Summary Statistics for Tributary Sites

Maximum	10	0.05	0.03	1.6	< 0.1
Minimum	< 1	< 0.01	< 0.01	< 0.05	< 0.1

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	9/22/2019	7:08 AM	17.35	75.4	7.22	826	7.28
ABT-077	Rte 27/USGS, Maynard	9/22/2019	8:59 AM	17.45	90.2	8.6	900	7.26
ABT-095	White Pond Rd, Stow	9/22/2019	8:40 AM	16.6	77.8	7.54	835	7.27
ABT-134	Sudbury Rd, Stow	9/22/2019	8:04 AM	18.19	106.9	10.07	883	7.41
ABT-162	Cox St, Hudson	9/22/2019	7:50 AM	17.16	70.2	6.74	916	7.28
ABT-301	Rte 9, Westboro	9/22/2019	8:10 AM	18.46	76	7.11	1000	7.12
ABT-312	Mill Road, Westboro	9/22/2019	8:30 AM	15.54	90.8	9.04	327	7.59
CND-009	Rogers St, Lowell	9/22/2019	8:01 AM	19.61	105.1	9.6	662	7.62
CND-161	Lowell Rd bridge, Concord	9/22/2019	7:19 AM	18.74	92.3	8.57	674	7.46
SUD-005	Rte 62 Boat House, Concord	9/22/2019	7:14 AM	19.39	99.2	9.13	557	7.33
SUD-064	Sherman Br Rd, Wayland	9/22/2019	7:15 AM	19.03	72.3	6.69	627	7.21
SUD-086	River Rd, Wayland	9/22/2019	7:35 AM	18.43	70.3	6.59	626	7.16
SUD-096	Rte 20, Wayland	9/22/2019	7:58 AM	18.59	83.1	7.75	626	7.19
SUD-144	Sudbury Landing, Framingham	9/22/2019	8:55 AM	17.82	88.4	8.39	591	7.28

Summary Statistics for Mainstem Sites

Maximum	19.61	106.9	10.07	1000	7.62
Minimum	15.54	70.2	6.59	327	7.12

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	9/22/2019	7:25 AM	14.74	82.7	8.37	236	7.29
ELZ-004	Elizabeth Br, Stow	9/22/2019	8:29 AM	15.36	49.2	4.8	439	7.39
HBS-016	Hop Br, Sudbury	9/22/2019	8:20 AM	15.4	58.3	5.84	580	6.96
HOP-011	Hop Br, Northboro	9/22/2019	7:49 AM	16.15	99.5	9.76	916	7.21
NSH-002	Nashoba, Commonwealth, W. Concor	9/22/2019	9:00 AM	16.98	19.1	1.85	629	7.17
NSH-047	Nashoba, Wheeler Ln, Acton	9/22/2019	8:08 AM	16.49	85.6	8.35	644	7.42
NTH-009	North Br, Berlin	9/22/2019	9:05 AM	13.6	95.3	9.91	182	7.44
RVM-005	River Mead, Thorndike, Lowell	9/22/2019	8:28 AM	16.96	99.6	9.6	1534	7.1

Summary Statistics for Tributary Sites

Maximum	16.98	99.6	9.91	1534	7.44
Minimum	13.60	19.1	1.85	182	6.96

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis

Mainstem				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
ABT-026	Rte 2, Concord	11/10/2019	8:16 AM	1	0.10	0.02	1.3	< 0.1
ABT-077	Rte 27/USGS, Maynard	11/10/2019	10:10 AM	8	0.05	0.02	1.6	< 0.1
ABT-301	Rte 9, Westboro	11/10/2019	9:50 AM	7	0.28	0.16	7.1	< 0.1
ABT-312	Mill Road, Westboro	11/10/2019	10:10 AM	2	0.02	< 0.01	< 0.05	< 0.1
CND-009	Rogers St, Lowell	11/10/2019	9:10 AM	2	0.04	0.02	0.57	< 0.1
CND-161	Lowell Rd bridge, Concord	11/10/2019	8:20 AM	6	0.03	< 0.01	0.18	< 0.1
SUD-005	Rte 62 Boat House, Concord	11/10/2019	8:02 AM	2	0.04	< 0.01	0.17	< 0.1
SUD-144	Sudbury Landing, Framingham	11/10/2019	8:40 AM	2	< 0.01	< 0.01	0.1	< 0.1

Summary Statistics for Mainstem Sites

Maximum	8	0.28	0.16	7.1	< 0.1
Minimum	1	< 0.01	< 0.01	< 0.05	< 0.1

Tributary				TSS	TP	ortho - P	NO3	NH3
Site Number	Location	Date	Time	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
DAN-013	Danforth Br, Hudson	11/10/2019	9:12 AM	1	0.11	0.01	< 0.05	< 0.1
ELZ-004	Elizabeth Br, Stow	11/10/2019	9:45 AM	2	0.05	0.01	0.14	< 0.1
HOP-011	Hop Br, Northboro	11/10/2019	9:25 AM	1	0.05	0.01	0.24	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	11/10/2019	10:50 AM	< 1	0.06	0.01	0.27	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	11/10/2019	9:43 AM	1	0.03	0.01	0.27	< 0.1
NTH-009	North Br, Berlin	11/10/2019	10:50 AM	5	0.05	< 0.01	0.17	< 0.1

Summary Statistics for Tributary Sites

Maximum	5	0.11	0.01	0.27	< 0.1
Minimum	< 1	0.03	< 0.01	< 0.05	< 0.1

OARS

na = not assessed; nr = not reported

Sudbury, Assabet, and Concord River Water Quality Data Report In-situ Measurements

Mainstem	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	11/10/2019	8:16 AM	4.3	93	12.07	603	7.85
ABT-077	Rte 27/USGS, Maynard	11/10/2019	10:10 AM	4.83	100.7	12.9	663	7.32
ABT-301	Rte 9, Westboro	11/10/2019	9:50 AM	8.77	95.3	11.01	1622	6.73
ABT-312	Mill Road, Westboro	11/10/2019	10:10 AM	6.51	99.1	12.17	244	7.63
CND-009	Rogers St, Lowell	11/10/2019	9:10 AM	5.43	99.4	12.52	526	7.07
CND-161	Lowell Rd bridge, Concord	11/10/2019	8:20 AM	4.9	86.1	10.97	520	7.29
SUD-005	Rte 62 Boat House, Concord	11/10/2019	8:02 AM	5.29	87.2	10.77	460	7.46
SUD-144	Sudbury Landing, Framingham	11/10/2019	8:40 AM	5.06	98.5	12.54	471	7.33

Summary Statistics for Mainstem Sites

Maximum	8.77	100.7	12.90	1622	7.85
Minimum	4.30	86.1	10.77	244	6.73

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond (μ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	11/10/2019	9:12 AM	2.33	97.2	13.32	245	7.65
ELZ-004	Elizabeth Br, Stow	11/10/2019	9:45 AM	2.58	76	10.33	379	7.27
HOP-011	Hop Br, Northboro	11/10/2019	9:25 AM	3.08	89.7	12.01	720	7.08
NSH-002	Nashoba, Commonwealth, W. Concor	11/10/2019	10:50 AM	4.06	87.8	11.48	499	7.27
NSH-047	Nashoba, Wheeler Ln, Acton	11/10/2019	9:43 AM	2.9	96.1	12.91	642	7.16
NTH-009	North Br, Berlin	11/10/2019	10:50 AM	2.47	96.7	13.19	312	7.38

Summary Statistics for Tributary Sites

Maximum	4.06	97.2	13.32	720	7.65
Minimum	2.33	76.0	10.33	245	7.08

Assabet River StreamWatch Streamflow Observations Report

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	3/13/2019	4:32 PM	2.93	297
ABT-077	Rte 27/USGS, Maynard	5/19/2019	7:55 AM	3.04	328
ABT-077	Rte 27/USGS, Maynard	6/16/2019	8:10 AM	2.13	114
ABT-077	Rte 27/USGS, Maynard	7/7/2019	8:07 AM	1.8	66.3
ABT-077	Rte 27/USGS, Maynard	8/11/2019	8:06 AM	2.1	109
ABT-077	Rte 27/USGS, Maynard	9/22/2019	8:59 AM	1.41	29.8
ABT-077	Rte 27/USGS, Maynard	11/10/2019	10:10 AM	2.25	122

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-312	Mill Road, Westboro	3/14/2019	12:25 PM	1.68	12.72
ABT-312	Mill Road, Westboro	5/19/2019	7:55 AM	1.78	16.91
ABT-312	Mill Road, Westboro	6/16/2019	8:00 AM	1.44	4.86
ABT-312	Mill Road, Westboro	7/7/2019	8:00 AM	1.4	3.98
ABT-312	Mill Road, Westboro	8/11/2019	7:18 AM	1.52	7.04
ABT-312	Mill Road, Westboro	9/22/2019	8:30 AM	0.98	0.124
ABT-312	Mill Road, Westboro	11/10/2019	10:10 AM	1.46	5.35

Assabet River StreamWatch Streamflow Observations Report

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
CND-009	Rogers St, Lowell	3/13/2019	12:09 PM	5.78	918
CND-009	Rogers St, Lowell	5/19/2019	6:49 AM	6.16	1230
CND-009	Rogers St, Lowell	6/16/2019	7:44 AM	5.27	577
CND-009	Rogers St, Lowell	7/7/2019	7:25 AM	4.64	272
CND-009	Rogers St, Lowell	8/11/2019	8:10 AM	5.02	440
CND-009	Rogers St, Lowell	9/22/2019	8:01 AM	3.99	85.1
CND-009	Rogers St, Lowell	11/10/2019	9:10 AM	5.08	495
Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	5/19/2019	6:30 AM	1.35	10.91
DAN-013	Danforth Br, Hudson	6/16/2019	6:25 AM		
DAN-013	Danforth Br, Hudson	7/7/2019	6:20 AM	0.88	1.488
DAN-013	Danforth Br, Hudson	8/11/2019	6:23 AM	0.8	0.96
DAN-013	Danforth Br, Hudson	9/22/2019	7:25 AM		
DAN-013	Danforth Br, Hudson	11/10/2019	9:12 AM	1.01	2.878

Assabet River StreamWatch Streamflow Observations Report

Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
HOP-011	Hop Br, Northboro	3/14/2019	12:15 PM	4.68	14.54
HOP-011	Hop Br, Northboro	5/19/2019	7:30 AM	4.72	16.05
HOP-011	Hop Br, Northboro	6/16/2019	7:35 AM	4.3	4.77
HOP-011	Hop Br, Northboro	7/7/2019	7:30 AM	5.68	
HOP-011	Hop Br, Northboro	8/11/2019	6:46 AM	4.18	3.14
HOP-011	Hop Br, Northboro	9/22/2019	7:49 AM	3.17	
HOP-011	Hop Br, Northboro	11/10/2019	9:25 AM	4.34	5.47

Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
NSH-002	Nashoba, Commonwealth, W. Conc	3/13/2019	2:19 PM		
NSH-002	Nashoba, Commonwealth, W. Conc	5/19/2019	7:31 AM	2.44	162.2
NSH-002	Nashoba, Commonwealth, W. Conc	6/16/2019	7:35 AM	1.52	65.56
NSH-002	Nashoba, Commonwealth, W. Conc	7/7/2019	7:48 AM	1.3	45.03
NSH-002	Nashoba, Commonwealth, W. Conc	8/11/2019	7:37 AM	1.16	33.87
NSH-002	Nashoba, Commonwealth, W. Conc	9/22/2019	9:00 AM		
NSH-002	Nashoba, Commonwealth, W. Conc	11/10/2019	10:50 AM	1.38	52.13

Assabet River StreamWatch Streamflow Observations Report

Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
NSH-047	Nashoba, Wheeler Ln, Acton	3/13/2019	11:42 AM	4.33	34.7
NSH-047	Nashoba, Wheeler Ln, Acton	5/19/2019	7:10 AM	4.11	24.2
NSH-047	Nashoba, Wheeler Ln, Acton	6/16/2019	7:20 AM	3.73	11.7
NSH-047	Nashoba, Wheeler Ln, Acton	7/7/2019	7:25 AM	3.77	12.7
NSH-047	Nashoba, Wheeler Ln, Acton	8/11/2019	7:13 AM	3.44	4.79
NSH-047	Nashoba, Wheeler Ln, Acton	9/22/2019	8:08 AM	2.93	0.51
NSH-047	Nashoba, Wheeler Ln, Acton	11/10/2019	9:43 AM	3.68	8.6

Tributary	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
NTH-009	North Br, Berlin	3/14/2019	11:30 AM	4.76	24.7
NTH-009	North Br, Berlin	5/19/2019	6:55 AM	4.82	27.3
NTH-009	North Br, Berlin	6/16/2019	6:44 AM	4.3	9
NTH-009	North Br, Berlin	7/7/2019	6:45 AM	4.2	6
NTH-009	North Br, Berlin	8/11/2019	8:02 AM	4.1	3.5
NTH-009	North Br, Berlin	9/22/2019	9:05 AM	4.02	2
NTH-009	North Br, Berlin	11/10/2019	10:50 AM	4.28	8.3

Assabet River StreamWatch Streamflow Observations Report

Mainstem	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
SUD-144	Sudbury Landing, Framingham	3/14/2019	1:20 PM	7.56	254
SUD-144	Sudbury Landing, Framingham	5/19/2019	8:07 AM	8.15	344
SUD-144	Sudbury Landing, Framingham	6/16/2019	7:19 AM	7.07	223
SUD-144	Sudbury Landing, Framingham	7/7/2019	7:58 AM	7.29	243
SUD-144	Sudbury Landing, Framingham	8/11/2019	7:58 AM	6.72	192
SUD-144	Sudbury Landing, Framingham	9/22/2019	8:55 AM	4.3	26.9
SUD-144	Sudbury Landing, Framingham	11/10/2019	8:40 AM	5.95	128

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Bacteria

6/17/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	6/17/2019	7:30 AM	76
ABT-162	Cox St, Hudson	6/17/2019	7:00 AM	228
CND-009	Rogers St, Lowell	6/17/2019	8:38 AM	224
CND-110	Rte 225, Bedford	6/17/2019	6:56 AM	24
SUD-096	Rte 20, Wayland	6/17/2019	6:35 AM	20
SUD-237	Rt 135, Ashland	6/17/2019	7:25 AM	128

Summary Statistics for 6/17/2019 Sites

Maximum	228
Minimum	20

6/24/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	6/24/2019	8:00 AM	88
ABT-162	Cox St, Hudson	6/24/2019	7:20 AM	164
CND-009	Rogers St, Lowell	6/24/2019	6:35 AM	124
CND-110	Rte 225, Bedford	6/24/2019	5:52 AM	52
SUD-096	Rte 20, Wayland	6/24/2019	6:45 AM	40
SUD-237	Rt 135, Ashland	6/24/2019	6:07 AM	64

Summary Statistics for 6/24/2019 Sites

Maximum	164
Minimum	40

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Bacteria

7/1/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	7/1/2019	7:25 AM	112
ABT-162	Cox St, Hudson	7/1/2019	6:55 AM	172
CND-009	Rogers St, Lowell	7/1/2019	6:19 AM	432
CND-110	Rte 225, Bedford	7/1/2019	5:49 AM	68
SUD-096	Rte 20, Wayland	7/1/2019	6:55 AM	28
SUD-237	Rt 135, Ashland	7/1/2019	6:16 AM	300

Summary Statistics for 7/1/2019 Sites

Maximum	432
Minimum	28

7/8/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	7/8/2019	7:35 AM	144
ABT-162	Cox St, Hudson	7/8/2019	7:00 AM	104
CND-009	Rogers St, Lowell	7/8/2019	6:36 AM	196
CND-110	Rte 225, Bedford	7/8/2019	5:58 AM	40
SUD-096	Rte 20, Wayland	7/8/2019	7:05 AM	264
SUD-237	Rt 135, Ashland	7/8/2019	6:15 AM	532

Summary Statistics for 7/8/2019 Sites

Maximum	532
Minimum	40

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Bacteria

7/15/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	7/15/2019	7:30 AM	72
ABT-162	Cox St, Hudson	7/15/2019	7:00 AM	88
CND-009	Rogers St, Lowell	7/15/2019	6:34 AM	184
CND-110	Rte 225, Bedford	7/15/2019	7:27 AM	92
SUD-096	Rte 20, Wayland	7/15/2019	7:07 AM	56
SUD-237	Rt 135, Ashland	7/15/2019	6:25 AM	208

Summary Statistics for 7/15/2019 Sites

Maximum	208
Minimum	56

7/22/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	7/22/2019	7:05 AM	136
ABT-162	Cox St, Hudson	7/22/2019	6:35 AM	156
CND-009	Rogers St, Lowell	7/22/2019	6:45 AM	236
CND-110	Rte 225, Bedford	7/22/2019	7:30 AM	60
SUD-096	Rte 20, Wayland	7/22/2019	6:55 AM	72
SUD-237	Rt 135, Ashland	7/22/2019	6:14 AM	136

Summary Statistics for 7/22/2019 Sites

Maximum	236
Minimum	60

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Bacteria

7/29/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	7/29/2019	7:30 AM	92
ABT-162	Cox St, Hudson	7/29/2019	6:50 AM	148
CND-009	Rogers St, Lowell	7/29/2019	6:25 AM	152
CND-110	Rte 225, Bedford	7/29/2019	5:55 AM	32
SUD-096	Rte 20, Wayland	7/29/2019	7:15 AM	8
SUD-237	Rt 135, Ashland	7/29/2019	6:15 AM	348

Summary Statistics for 7/29/2019 Sites

Maximum	348
Minimum	8

8/5/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	8/5/2019	7:35 AM	72
ABT-162	Cox St, Hudson	8/5/2019	7:09 AM	160
CND-009	Rogers St, Lowell	8/5/2019	6:45 AM	128
CND-110	Rte 225, Bedford	8/5/2019	5:55 AM	60
SUD-096	Rte 20, Wayland	8/5/2019	6:45 AM	12
SUD-237	Rt 135, Ashland	8/5/2019	6:10 AM	148

Summary Statistics for 8/5/2019 Sites

Maximum	160
Minimum	12

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Bacteria

8/12/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	8/12/2019	7:30 AM	104
ABT-162	Cox St, Hudson	8/12/2019	7:00 AM	116
CND-009	Rogers St, Lowell	8/12/2019	6:55 AM	92
CND-110	Rte 225, Bedford	8/12/2019	6:05 AM	52
SUD-096	Rte 20, Wayland	8/12/2019	7:00 AM	32
SUD-237	Rt 135, Ashland	8/12/2019	6:15 AM	76

Summary Statistics for 8/12/2019 Sites

Maximum	116
Minimum	32

8/19/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	8/19/2019	7:35 AM	132
ABT-162	Cox St, Hudson	8/19/2019	7:00 AM	260
CND-009	Rogers St, Lowell	8/19/2019	6:39 AM	184
CND-110	Rte 225, Bedford	8/19/2019	5:53 AM	44
SUD-096	Rte 20, Wayland	8/19/2019	7:10 AM	56
SUD-237	Rt 135, Ashland	8/19/2019	6:20 AM	68

Summary Statistics for 8/19/2019 Sites

Maximum	260
Minimum	44

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Bacteria

8/26/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	8/26/2019	7:13 AM	132
ABT-162	Cox St, Hudson	8/26/2019	6:39 AM	188
CND-009	Rogers St, Lowell	8/26/2019	6:37 AM	84
CND-110	Rte 225, Bedford	8/26/2019	6:05 AM	12
SUD-096	Rte 20, Wayland	8/26/2019	6:45 AM	140
SUD-237	Rt 135, Ashland	8/26/2019	6:10 AM	136

Summary Statistics for 8/26/2019 Sites

Maximum	188
Minimum	12

9/3/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	9/3/2019	7:05 AM	212
ABT-162	Cox St, Hudson	9/3/2019	6:25 AM	560
CND-009	Rogers St, Lowell	9/3/2019	6:55 AM	148
CND-110	Rte 225, Bedford	9/3/2019	6:00 AM	72
SUD-096	Rte 20, Wayland	9/3/2019	6:45 AM	228
SUD-237	Rt 135, Ashland	9/3/2019	6:10 AM	268

Summary Statistics for 9/3/2019 Sites

Maximum	560
Minimum	72

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Bacteria

9/9/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	9/9/2019	6:50 AM	144
ABT-162	Cox St, Hudson	9/9/2019	6:20 AM	100
CND-009	Rogers St, Lowell	9/9/2019	6:40 AM	88
CND-110	Rte 225, Bedford	9/9/2019	6:05 AM	36
SUD-096	Rte 20, Wayland	9/9/2019	6:40 AM	52
SUD-237	Rt 135, Ashland	9/9/2019	6:05 AM	80

Summary Statistics for 9/9/2019 Sites

Maximum	144
Minimum	36

9/16/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	9/16/2019	6:55 AM	280
ABT-162	Cox St, Hudson	9/16/2019	6:30 AM	152
CND-009	Rogers St, Lowell	9/16/2019	7:05 AM	56
CND-110	Rte 225, Bedford	9/16/2019	6:30 AM	40
SUD-096	Rte 20, Wayland	9/16/2019	6:50 AM	68
SUD-237	Rt 135, Ashland	9/16/2019	6:15 AM	156

Summary Statistics for 9/16/2019 Sites

Maximum	280
Minimum	40

Sudbury, Assabet and Concord Rivers Water Quality Data Report - Laboratory Analysis of Bacteria

9/23/2019				E. coli
Site Number	Location	Date	Time	CFU / 100ml)
ABT-077	Rte 27/USGS, Maynard	9/23/2019	7:05 AM	168
ABT-162	Cox St, Hudson	9/23/2019	6:40 AM	124
CND-009	Rogers St, Lowell	9/23/2019	6:50 AM	156
CND-110	Rte 225, Bedford	9/23/2019	6:20 AM	12
SUD-096	Rte 20, Wayland	9/23/2019	7:10 AM	80
SUD-237	Rt 135, Ashland	9/23/2019	6:30 AM	112

Summary Statistics for 9/23/2019 Sites

Maximum	168
Minimum	12
