

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

<b>Mainstem</b>				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	3/26/2017	11:08 AM	<1	0.03	< 0.01	1.1	0.15
ABT-077	Rte 27/USGS, Maynard	3/26/2017	12:36 PM	<1	0.03	< 0.01	1.4	0.14
ABT-301	Rte 9, Westboro	3/26/2017	2:59 PM	2	0.05	< 0.01	5.1	0.19
ABT-312	Mill Road, Westboro	3/26/2017	2:30 PM	1	0.01	< 0.01	< 0.05	0.17
CND-009	Rogers St, Lowell	3/26/2017	9:50 AM	2	0.02	< 0.01	0.92	0.14
CND-161	Lowell Rd bridge, Concord	3/26/2017	11:22 AM	2	0.02	< 0.01	1	0.15
SUD-005	Rte 62 Boat House, Concord	3/26/2017	11:43 AM	2	0.02	< 0.01	0.56	0.13
SUD-144	Sudbury Landing, Framingham	3/26/2017	3:38 PM	2	0.01	< 0.01	0.37	0.17

### Summary Statistics for Mainstem Sites

Maximum	2	0.05	< 0.01	5.1	0.19
Minimum	<1	0.01	< 0.01	< 0.05	0.13

<b>Tributary</b>				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	3/26/2017	1:26 PM	<1	0.02	< 0.01	0.14	0.1
ELZ-004	Elizabeth Br, Stow	3/26/2017	12:55 PM	<1	0.02	< 0.01	0.29	0.1
HOP-011	Hop Br, Northboro	3/26/2017	2:43 PM	1	0.01	< 0.01	0.62	0.12
NSH-002	Nashoba, Commonwealth, W. Con	3/26/2017	12:00 PM	<1	0.03	< 0.01	1.1	0.12
NSH-047	Nashoba, Wheeler Ln, Acton	3/26/2017	10:29 AM	<1	0.01	< 0.01	0.57	0.23
NTH-009	North Br, Berlin	3/26/2017	1:45 PM	2	0.01	< 0.01	0.40	0.1

### Summary Statistics for Tributary Sites

Maximum	2	0.03	< 0.01	1.1	0.23
Minimum	<1	0.01	< 0.01	0.14	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 ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	3/26/2017	11:08 AM	3.09	103.4	13.86	377	7.01
ABT-077	Rte 27/USGS, Maynard	3/26/2017	12:36 PM	3.69	108.9	14.36	388	7.15
ABT-301	Rte 9, Westboro	3/26/2017	2:59 PM	7.12	100.6	12.15	506	7.11
ABT-312	Mill Road, Westboro	3/26/2017	2:30 PM	3.55	103.0	13.65	187	7.10
CND-009	Rogers St, Lowell	3/26/2017	9:50 AM	3.19	84.7	11.31	454	6.75
CND-161	Lowell Rd bridge, Concord	3/26/2017	11:22 AM	2.94	100.2	13.47	369	7.02
SUD-005	Rte 62 Boat House, Concord	3/26/2017	11:43 AM	3.37	99.9	13.29	402	7.03
SUD-144	Sudbury Landing, Framingham	3/26/2017	3:38 PM	3.67	105.7	13.94	470	7.27

### Summary Statistics for Mainstem Sites

Maximum	7.12	108.9	14.36	506	7.27
Minimum	2.94	84.7	11.31	187	6.75

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat ( % )	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	3/26/2017	1:26 PM	1.95	99.9	13.82	154	7.20
ELZ-004	Elizabeth Br, Stow	3/26/2017	12:55 PM	3.91	99.9	13.11	245	7.15
HOP-011	Hop Br, Northboro	3/26/2017	2:43 PM	3.07	102.8	13.77	570	6.90
NSH-002	Nashoba, Commonwealth, W. Concor	3/26/2017	12:00 PM	2.92	98.6	13.28	372	6.94
NSH-047	Nashoba, Wheeler Ln, Acton	3/26/2017	10:29 AM	1.28	91.9	12.94	374	6.85
NTH-009	North Br, Berlin	3/26/2017	1:45 PM	2.96	103.6	13.94	152	7.08

### Summary Statistics for Tributary Sites

Maximum	3.91	103.6	13.94	570	7.20
Minimum	1.28	91.9	12.94	152	6.85

## Assabet River StreamWatch Streamflow Observations Report

<b>Mainstem</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	3/26/2017	12:36 PM	2.56	200
ABT-312	Mill Road, Westboro	3/26/2017	2:30 PM	1.56	8.38
CND-009	Rogers St, Lowell	3/26/2017	9:50 AM	5.36	629
SUD-144	Sudbury Landing, Framingham	3/26/2017	3:38 PM		190
<b>Tributary</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	3/26/2017	1:26 PM	1.45	15.34
HOP-011	Hop Br, Northboro	3/26/2017	2:43 PM	4.56	10.64
NSH-002	Nashoba, Commonwealth, W. Conc	3/26/2017	12:00 PM	1.89	103.2
NSH-047	Nashoba, Wheeler Ln, Acton	3/26/2017	10:29 AM	4.10	19.4
NTH-009	North Br, Berlin	3/26/2017	1:45 PM	5.42	59.8

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

<b>Mainstem</b>				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	5/21/2017	6:20 AM	8	0.05	0.01	0.5	0.14
ABT-077	Rte 27/USGS, Maynard	5/21/2017	7:50 AM	5	0.05	0.02	0.55	0.17
ABT-301	Rte 9, Westboro	5/21/2017	7:32 AM	3	0.05	0.02	2.6	< 0.1
ABT-312	Mill Road, Westboro	5/21/2017	6:55 AM	2	0.02	< 0.01	< 0.05	0.11
CND-009	Rogers St, Lowell	5/21/2017	7:05 AM	6	0.07	< 0.01	0.26	0.14
CND-161	Lowell Rd bridge, Concord	5/21/2017	6:50 AM	16	0.08	< 0.01	< 0.05	0.13
SUD-005	Rte 62 Boat House, Concord	5/21/2017	6:00 AM	7	0.04	< 0.01	< 0.05	0.15
SUD-064	Sherman Br Rd, Wayland	5/21/2017	6:09 AM	14	0.05	< 0.01	< 0.05	0.12
SUD-086	River Rd, Wayland	5/21/2017	6:34 AM	4	0.04	< 0.01	0.07	< 0.1
SUD-096	Rte 20, Wayland	5/21/2017	6:54 AM	6	0.04	< 0.01	0.1	< 0.1
SUD-144	Sudbury Landing, Framingham	5/21/2017	7:36 AM	3	0.02	< 0.01	0.23	< 0.1

### Summary Statistics for Mainstem Sites

Maximum	16	0.08	0.02	2.6	0.17
Minimum	2	0.02	< 0.01	< 0.05	< 0.1

<b>Tributary</b>				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	5/21/2017	6:35 AM	2	0.04	< 0.01	< 0.05	0.1
ELZ-004	Elizabeth Br, Stow	5/21/2017	7:38 AM	4	0.03	< 0.01	0.08	0.16
HBS-016	Hop Br, Sudbury	5/21/2017	7:14 AM	5	0.05	0.01	0.33	< 0.1
HOP-011	Hop Br, Northboro	5/21/2017	7:15 AM	4	0.04	< 0.01	0.27	0.11
NSH-002	Nashoba, Commonwealth, W. Con	5/21/2017	7:40 AM	2	0.04	< 0.01	1.1	0.13
NSH-047	Nashoba, Wheeler Ln, Acton	5/21/2017	7:15 AM	4	0.04	< 0.01	0.17	0.15
NTH-009	North Br, Berlin	5/21/2017	7:56 AM	5	0.03	< 0.01	0.1	< 0.1
RVM-005	River Mead, Thorndike, Lowell	5/21/2017	7:35 AM	3	0.04	< 0.01	0.13	0.21

### Summary Statistics for Tributary Sites

Maximum	5	0.05	0.01	1.1	0.21
Minimum	2	0.03	< 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 ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	5/21/2017	6:20 AM	19.95	85.4	7.76	520	7.39
ABT-301	Rte 9, Westboro	5/21/2017	7:32 AM	15.69	84.1	8.34	474	7.30
ABT-312	Mill Road, Westboro	5/21/2017	6:55 AM	18.17	91.1	8.58	260	7.37
CND-009	Rogers St, Lowell	5/21/2017	7:05 AM	20.06	86.5	7.84	536	6.95
CND-161	Lowell Rd bridge, Concord	5/21/2017	6:50 AM	21.15	76.5	6.79	562	7.22
SUD-005	Rte 62 Boat House, Concord	5/21/2017	6:00 AM	21.33	71.3	6.30	571	6.77
SUD-064	Sherman Br Rd, Wayland	5/21/2017	6:09 AM	20.71	50.80	4.54	601	6.92
SUD-086	River Rd, Wayland	5/21/2017	6:34 AM	20.19	56.20	5.10	611	6.84
SUD-096	Rte 20, Wayland	5/21/2017	6:54 AM	19.62	60.40	5.53	602	6.87
SUD-144	Sudbury Landing, Framingham	5/21/2017	7:36 AM	18.78	93.7	8.71	662	7.06

### Summary Statistics for Mainstem Sites

Maximum	21.33	93.7	8.71	662	7.39
Minimum	15.69	50.8	4.54	260	6.77

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat ( % )	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
HBS-016	Hop Br, Sudbury	5/21/2017	7:14 AM	16.75	35.40	3.43	499	6.85
HOP-011	Hop Br, Northboro	5/21/2017	7:15 AM	15.55	104.4	10.38	649	7.30
NSH-002	Nashoba, Commonwealth, W. Concor	5/21/2017	7:40 AM	19.50	82.1	7.53	489	7.11
NSH-047	Nashoba, Wheeler Ln, Acton	5/21/2017	7:15 AM	17.44	83.5	7.98	555	7.14
NTH-009	North Br, Berlin	5/21/2017	7:56 AM	13.64	88.0	9.14	212	7.18
RVM-005	River Mead, Thorndike, Lowell	5/21/2017	7:35 AM	17.09	89.6	8.63	659	6.84

### Summary Statistics for Tributary Sites

Maximum	19.50	104.4	10.38	659	7.30
Minimum	13.64	35.4	3.43	212	6.84

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

<b>Mainstem</b>	Location:	Date	Time	Water Temp (deg C)	DO Sat ( % )	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
ABT-077	Rte 27/USGS, Maynard	5/22/2017	7:31 AM	18.89	96.9	9.16	583	7.31
ABT-095	White Pond Rd, Stow	5/22/2017	7:10 AM	19.03	100.5	9.31	558	7.22
ABT-134	Sudbury Rd, Stow	5/22/2017	6:55 AM	18.93	85.0	7.87	647	7.29
ABT-162	Cox St, Hudson	5/22/2017	7:02 AM	18.55	88.2	8.34	520	7.30

### Summary Statistics for Mainstem Sites

Maximum	19.03	100.5	9.31	647	7.31
Minimum	18.55	85.0	7.87	520	7.22

<b>Tributary</b>	Location:	Date	Time	Water Temp (deg C)	DO Sat ( % )	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	5/22/2017	6:10 AM	14.62	89.5	9.21	215	7.31
ELZ-004	Elizabeth Br, Stow	5/22/2017	7:38 AM	16.86	64.2	6.20	343	7.28

### Summary Statistics for Tributary Sites

Maximum	16.86	89.5	9.21	343	7.31
Minimum	14.62	64.2	6.20	215	7.28

## Assabet River StreamWatch Streamflow Observations Report

<b>Mainstem</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	5/21/2017	7:50 AM	2.69	232
ABT-312	Mill Road, Westboro	5/21/2017	6:55 AM	1.66	11.97
SUD-144	Sudbury Landing, Framingham	5/21/2017	7:36 AM		121
<b>Tributary</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	5/21/2017	6:35 AM	1.22	6.79
HOP-011	Hop Br, Northboro	5/21/2017	7:15 AM	4.55	10.35
NSH-002	Nashoba, Commonwealth, W. Conc	5/21/2017	7:40 AM	1.81	95
NSH-047	Nashoba, Wheeler Ln, Acton	5/21/2017	7:15 AM	3.90	15.0
NTH-009	North Br, Berlin	5/21/2017	7:56 AM	4.96	34

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

<b>Mainstem</b>				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	6/18/2017	6:25 AM	6	0.02	0.02	0.78	0.19	
ABT-062	Rte 62, Acton	6/18/2017	6:25 AM	3	0.02	0.02	0.96	0.18	
ABT-077	Rte 27/USGS, Maynard	6/18/2017	7:50 AM	5	0.04	0.02	0.94	0.19	
ABT-144	Rte 62, Stow	6/18/2017	6:40 AM	4	0.02	0.02	1.3	0.2	
ABT-237	Robin Hill Rd, Marlboro	6/18/2017	7:00 AM	4	< 0.01	< 0.01	1.5	0.15	
ABT-301	Rte 9, Westboro	6/18/2017	8:10 AM	4	< 0.01	< 0.01	2.5	0.17	
ABT-312	Mill Road, Westboro	6/18/2017	8:00 AM	2	< 0.01	< 0.01	< 0.05	0.13	
CND-009	Rogers St, Lowell	6/18/2017	7:50 AM	6	0.04	0.02	0.32	0.2	
CND-045	Lowell St, Billerica	6/18/2017	7:21 AM	4	0.04	0.02	0.22	0.19	
CND-110	Rte 225, Bedford	6/18/2017	6:42 AM	4	0.04	0.02	0.30	0.21	
CND-161	Lowell Rd bridge, Concord	6/18/2017	6:50 AM	30	0.05	0.04	< 0.05	0.24	
SUD-005	Rte 62 Boat House, Concord	6/18/2017	6:11 AM	5	0.06	0.03	< 0.05	0.24	
SUD-064	Sherman Br Rd, Wayland	6/18/2017	6:05 AM	4	0.05	0.04	0.06	0.28	
SUD-086	River Rd, Wayland	6/18/2017	6:25 AM	10	0.13	0.03	0.1	0.26	
SUD-096	Rte 20, Wayland	6/18/2017	6:43 AM	4	0.03	0.03	0.12	0.22	
SUD-144	Sudbury Landing, Framingham	6/18/2017	7:20 AM	2	< 0.01	< 0.01	0.17	0.16	
Summary Statistics for Mainstem Sites									
				Maximum	30	0.13	0.04	2.5	0.28
				Minimum	2	< 0.01	< 0.01	< 0.05	0.13



## 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	6/18/2017	7:06 AM	4	< 0.01	< 0.01	< 0.05	0.19
ELZ-004	Elizabeth Br, Stow	6/18/2017	7:30 AM	2	< 0.01	< 0.01	0.11	0.15
HBS-016	Hop Br, Sudbury	6/18/2017	7:02 AM	2	0.05	0.04	< 0.05	0.19
HOP-011	Hop Br, Northboro	6/18/2017	7:40 AM	2	< 0.01	< 0.01	0.23	0.18
NSH-002	Nashoba, Commonwealth, W. Con	6/18/2017	7:44 AM	4	0.04	< 0.01	0.25	0.21
NSH-047	Nashoba, Wheeler Ln, Acton	6/18/2017	7:19 AM	6	0.03	0.01	0.19	0.24
NTH-009	North Br, Berlin	6/18/2017	7:20 AM	2	< 0.01	< 0.01	0.08	0.13
RVM-005	River Mead, Thorndike, Lowell	6/18/2017	8:07 AM	8	0.03	0.01	0.17	0.27
Summary Statistics for Tributary Sites								
				8	0.05	0.04	0.25	0.27
				2	< 0.01	< 0.01	< 0.05	0.13

## 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 ( $\mu$ S/cm)	pH (s.u.)	
ABT-026	Rte 2, Concord	6/18/2017	6:25 AM	20.73	90.1	8.06	598	7.35	
ABT-062	Rte 62, Acton	6/18/2017	6:00 AM	20.96	101.8	9.06	630	7.40	
ABT-077	Rte 27/USGS, Maynard	6/18/2017	7:50 AM	20.97	93.3	8.31	581	6.82	
ABT-144	Rte 62, Stow	6/18/2017	6:40 AM	19.04	97.7	9.04	582	6.88	
ABT-162	Cox St, Hudson	6/18/2017	6:23 AM	18.83	91.2	8.47	576	6.83	
ABT-237	Robin Hill Rd, Marlboro	6/18/2017	7:00 AM	18.34	84.1	7.85	673	7.17	
ABT-301	Rte 9, Westboro	6/18/2017	8:10 AM	20.00	84.1	7.63	754	7.18	
ABT-312	Mill Road, Westboro	6/18/2017	8:00 AM	21.89	92.9	8.13	262	7.35	
CND-009	Rogers St, Lowell	6/18/2017	7:50 AM	21.86	83.5	7.32	590	6.99	
CND-045	Lowell St, Billerica	6/18/2017	7:21 AM	22.43	83.0	7.21	567	6.97	
CND-110	Rte 225, Bedford	6/18/2017	6:42 AM	21.87	49.2	4.31	566	6.88	
CND-161	Lowell Rd bridge, Concord	6/18/2017	6:50 AM	21.94	33.6	2.92	595	7.20	
SUD-005	Rte 62 Boat House, Concord	6/18/2017	6:11 AM	22.10	28.2	2.46	577	6.80	
SUD-064	Sherman Br Rd, Wayland	6/18/2017	6:05 AM	20.82	25.4	2.27	566	6.67	
SUD-086	River Rd, Wayland	6/18/2017	6:25 AM	20.51	36.9	3.33	543	6.69	
SUD-096	Rte 20, Wayland	6/18/2017	6:43 AM	20.4	44.3	4.00	529	6.68	
SUD-144	Sudbury Landing, Framingham	6/18/2017	7:20 AM	20.94	98.6	8.81	590	7.01	
Summary Statistics for Mainstem Sites									
				Maximum	22.43	101.8	9.06	754	7.40
				Minimum	18.34	25.4	2.27	262	6.67

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

<b>Tributary</b>	<b>Location:</b>	<b>Date</b>	<b>Time</b>	<b>Water Temp (deg C)</b>	<b>DO Sat ( % )</b>	<b>DO (mg/l)</b>	<b>Cond (<math>\mu</math> S/cm)</b>	<b>pH (s.u.)</b>
DAN-013	Danforth Br, Hudson	6/18/2017	7:06 AM	18.72	97.5	9.09	224	6.95
ELZ-004	Elizabeth Br, Stow	6/18/2017	7:30 AM	19.84	67.2	6.12	371	6.73
HBS-016	Hop Br, Sudbury	6/18/2017	7:02 AM	19.44	23.9	2.20	455	6.60
HOP-011	Hop Br, Northboro	6/18/2017	7:40 AM	17.73	75.1	7.13	594	6.88
NSH-002	Nashoba, Commonwealth, W. Concor	6/18/2017	7:44 AM	19.94	81.0	7.35	536	7.02
NSH-047	Nashoba, Wheeler Ln, Acton	6/18/2017	7:19 AM	18.19	76.1	7.16	569	6.77
NTH-009	North Br, Berlin	6/18/2017	7:20 AM	17.62	88.8	8.46	216	7.28
RVM-005	River Mead, Thorndike, Lowell	6/18/2017	8:07 AM	18.90	92.4	8.58	665	6.92

### Summary Statistics for Tributary Sites

Maximum	19.94	97.5	9.09	665	7.28
Minimum	17.62	23.9	2.20	216	6.60

## Assabet River StreamWatch Streamflow Observations Report

<b>Mainstem</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	6/18/2017	7:50 AM	2.65	216
ABT-312	Mill Road, Westboro	6/18/2017	8:00 AM	1.54	7.69
CND-009	Rogers St, Lowell	6/18/2017	7:50 AM	5.49	712
SUD-144	Sudbury Landing, Framingham	6/18/2017	7:20 AM		143
<b>Tributary</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	6/18/2017	7:06 AM	1.38	12.13
HOP-011	Hop Br, Northboro	6/18/2017	7:40 AM	4.62	12.48
NSH-002	Nashoba, Commonwealth, W. Conc	6/18/2017	7:44 AM	1.52	65.56
NSH-047	Nashoba, Wheeler Ln, Acton	6/18/2017	7:19 AM	4.15	25.0
NTH-009	North Br, Berlin	6/18/2017	7:20 AM	5.05	38.5

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

<b>Mainstem</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
SUD-005	Rte 62 Boat House, Concord	6/20/2017	9:58 AM	3.03
SUD-064	Sherman Br Rd, Wayland	6/20/2017	1:36 PM	NA
SUD-086	River Rd, Wayland	6/20/2017	10:25 AM	4.57
SUD-096	Rte 20, Wayland	6/20/2017	10:53 AM	<2.00
SUD-144	Sudbury Landing, Framingham	6/20/2017	11:35 AM	<2.00

### Summary Statistics for Mainstem Sites

Maximum	4.57
Minimum	<2.00

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<b>Tributary</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
HBS-016	Hop Br, Sudbury	6/20/2017	11:09 AM	<2.00

### Summary Statistics for Tributary Sites

Maximum	<2.00
Minimum	<2.00

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

<b>Mainstem</b>				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	7/16/2017	6:19 AM	3	0.06	0.01	0.4	< 0.1	
ABT-062	Rte 62, Acton	7/16/2017	5:54 AM	3	0.05	< 0.01	1	< 0.1	
ABT-077	Rte 27/USGS, Maynard	7/16/2017	8:35 AM	5	0.06	< 0.01	0.82	< 0.1	
ABT-144	Rte 62, Stow	7/16/2017	8:10 AM	1	0.06	0.02	3.1	0.15	
ABT-237	Robin Hill Rd, Marlboro	7/16/2017	7:50 AM	3	0.03	< 0.01	3.9	0.16	
ABT-301	Rte 9, Westboro	7/16/2017	7:05 AM	1	0.03	< 0.01	6.9	0.16	
ABT-312	Mill Road, Westboro	7/16/2017	7:22 AM	1	0.02	< 0.01	< 0.05	< 0.1	
CND-009	Rogers St, Lowell	7/16/2017	7:16 AM	4	0.05	0.01	0.45	0.1	
CND-045	Lowell St, Billerica	7/16/2017	6:55 AM	4	0.05	< 0.01	0.34	< 0.1	
CND-110	Rte 225, Bedford	7/16/2017	6:25 AM	4	0.07	0.02	0.33	0.13	
CND-161	Lowell Rd bridge, Concord	7/16/2017	6:44 AM	15	0.1	0.01	0.26	0.14	
SUD-005	Rte 62 Boat House, Concord	7/16/2017	6:00 AM	6	0.08	0.02	0.07	0.17	
SUD-064	Sherman Br Rd, Wayland	7/16/2017	6:04 AM	5	0.06	0.02	0.1	0.18	
SUD-086	River Rd, Wayland	7/16/2017	6:19 AM	2	0.05	0.02	0.12	0.17	
SUD-096	Rte 20, Wayland	7/16/2017	6:32 AM	6	0.06	0.03	0.12	0.12	
SUD-144	Sudbury Landing, Framingham	7/16/2017	7:13 AM	<1	0.03	< 0.01	0.17	< 0.1	
Summary Statistics for Mainstem Sites									
				Maximum	15	0.1	0.03	6.9	0.18
				Minimum	<1	0.02	< 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	7/16/2017	6:25 AM	7	0.06	0.01	0.1	< 0.1
ELZ-004	Elizabeth Br, Stow	7/16/2017	7:30 AM	1	0.04	< 0.01	0.12	0.16
HBS-016	Hop Br, Sudbury	7/16/2017	6:54 AM	2	0.14	0.04	0.08	< 0.1
HOP-011	Hop Br, Northboro	7/16/2017	6:50 AM	1	0.03	0.02	0.25	0.12
NSH-002	Nashoba, Commonwealth, W. Con	7/16/2017	7:44 AM	2	0.07	0.02	0.13	0.12
NSH-047	Nashoba, Wheeler Ln, Acton	7/16/2017	7:18 AM	3	0.08	0.02	0.11	0.12
NTH-009	North Br, Berlin	7/16/2017	8:11 AM	2	0.02	< 0.01	0.19	< 0.1
RVM-005	River Mead, Thorndike, Lowell	7/16/2017	7:35 AM	4	0.05	0.02	0.14	< 0.1

### Summary Statistics for Tributary Sites

Maximum	7	0.14	0.04	0.25	0.16
Minimum	1	0.02	< 0.01	0.08	< 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 ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	7/16/2017	6:19 AM	20.86	82.7	7.38	584	7.47
ABT-062	Rte 62, Acton	7/16/2017	5:54 AM	22.35	101.7	8.81	767	7.83
ABT-077	Rte 27/USGS, Maynard	7/16/2017	8:35 AM	21.91	100.5	8.78	724	7.54
ABT-095	White Pond Rd, Stow	7/16/2017	7:50 AM	21.04	69.3	6.16	739	7.05
ABT-134	Sudbury Rd, Stow	7/16/2017	7:08 AM	21.55	94.8	8.34	828	7.39
ABT-144	Rte 62, Stow	7/16/2017	8:10 AM	21.40	96.9	8.55	854	7.42
ABT-162	Cox St, Hudson	7/16/2017	6:47 AM	20.19	82.6	7.47	822	7.25
ABT-237	Robin Hill Rd, Marlboro	7/16/2017	7:50 AM	19.42	76.7	7.03	855	7.25
ABT-301	Rte 9, Westboro	7/16/2017	7:05 AM	20.11	74.9	6.79	992	7.19
ABT-312	Mill Road, Westboro	7/16/2017	7:22 AM	22.60	82.2	7.10	287	7.38
CND-009	Rogers St, Lowell	7/16/2017	7:16 AM	21.89	85.2	7.46	558	6.75
CND-045	Lowell St, Billerica	7/16/2017	6:55 AM	22.07	84.3	7.34	530	6.67
CND-110	Rte 225, Bedford	7/16/2017	6:25 AM	21.53	65.0	5.78	540	6.68
CND-161	Lowell Rd bridge, Concord	7/16/2017	6:44 AM	21.78	70.8	6.19	580	7.24
SUD-005	Rte 62 Boat House, Concord	7/16/2017	6:00 AM	22.90	46.3	3.98	592	6.57
SUD-064	Sherman Br Rd, Wayland	7/16/2017	6:04 AM	21.73	48.3	4.24	611	7.44
SUD-086	River Rd, Wayland	7/16/2017	6:19 AM	21.33	53.40	4.70	613	7.25
SUD-096	Rte 20, Wayland	7/16/2017	6:32 AM	21.08	56.7	5.03	600	7.19
SUD-144	Sudbury Landing, Framingham	7/16/2017	7:13 AM	20.82	87.0	7.77	870	7.21

### Summary Statistics for Mainstem Sites

Maximum	22.90	101.7	8.81	992	7.83
Minimum	19.42	46.3	3.98	287	6.57



## 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 ( $\mu$ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	7/16/2017	6:25 AM	19.29	88.0	8.11	256	7.44
ELZ-004	Elizabeth Br, Stow	7/16/2017	7:30 AM	20.07	52.1	4.70	411	6.75
HBS-016	Hop Br, Sudbury	7/16/2017	6:54 AM	19.56	17.4	1.58	527	7.05
HOP-011	Hop Br, Northboro	7/16/2017	6:50 AM	19.56	82.9	7.58	738	7.16
NSH-002	Nashoba, Commonwealth, W. Concor	7/16/2017	7:44 AM	20.09	77.9	7.06	411	6.86
NSH-047	Nashoba, Wheeler Ln, Acton	7/16/2017	7:18 AM	19.07	72.6	6.72	463	6.75
NTH-009	North Br, Berlin	7/16/2017	8:11 AM	18.94	80.7	7.49	270	7.29
RVM-005	River Mead, Thorndike, Lowell	7/16/2017	7:35 AM	20.67	88.3	7.91	588	6.73

### Summary Statistics for Tributary Sites

Maximum	20.67	88.3	8.11	738	7.44
Minimum	18.94	17.4	1.58	256	6.73

## Assabet River StreamWatch Streamflow Observations Report

<b>Mainstem</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	7/16/2017	8:35 AM	1.94	80.7
ABT-312	Mill Road, Westboro	7/16/2017	7:22 AM	1.28	1.87
CND-009	Rogers St, Lowell	7/16/2017	7:16 AM	5.07	465
SUD-144	Sudbury Landing, Framingham	7/16/2017	7:13 AM	4.73	51.9
<b>Tributary</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	7/16/2017	6:25 AM	NA	NA
HOP-011	Hop Br, Northboro	7/16/2017	6:50 AM	4.24	3.87
NSH-002	Nashoba, Commonwealth, W. Conc	7/16/2017	7:44 AM	NA	NA
NSH-047	Nashoba, Wheeler Ln, Acton	7/16/2017	7:18 AM	4.10	24.1
NTH-009	North Br, Berlin	7/16/2017	8:11 AM	4.23	6.8

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

<b>Mainstem</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
SUD-005	Rte 62 Boat House, Concord	7/19/2017	10:15 AM	12.2
SUD-064	Sherman Br Rd, Wayland	7/19/2017	10:38 AM	<2.00
SUD-086	River Rd, Wayland	7/19/2017	10:54 AM	3.52
SUD-096	Rte 20, Wayland	7/19/2017	11:10 AM	3.93
SUD-144	Sudbury Landing, Framingham	7/19/2017	11:20 AM	4.49

### Summary Statistics for Mainstem Sites

Maximum	12.2
Minimum	<2.00

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<b>Tributary</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
HBS-016	Hop Br, Sudbury	7/19/2017	11:20 AM	4.57

### Summary Statistics for Tributary Sites

Maximum	4.57
Minimum	4.57

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

<b>Mainstem</b>				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	8/20/2017	6:20 AM	<1	< 0.01	< 0.01	0.66	0.19	
ABT-062	Rte 62, Acton	8/20/2017	6:00 AM	2	0.06	< 0.01	0.92	0.19	
ABT-077	Rte 27/USGS, Maynard	8/20/2017	8:30 AM	<1	< 0.01	< 0.01	0.91	< 0.1	
ABT-144	Rte 62, Stow	8/20/2017	7:10 AM	1	< 0.01	< 0.01	3.7	< 0.1	
ABT-237	Robin Hill Rd, Marlboro	8/20/2017	8:05 AM	2	< 0.01	< 0.01	6.2	0.33	
ABT-301	Rte 9, Westboro	8/20/2017	7:14 AM	<1	< 0.01	< 0.01	9.8	< 0.1	
ABT-312	Mill Road, Westboro	8/20/2017	7:35 AM	14	< 0.01	< 0.01	0.24	0.18	
CND-009	Rogers St, Lowell	8/20/2017	7:32 AM	8	< 0.01	< 0.01	0.84	0.19	
CND-045	Lowell St, Billerica	8/20/2017	7:05 AM	3	< 0.01	< 0.01	0.26	0.23	
CND-110	Rte 225, Bedford	8/20/2017	6:33 AM	4	< 0.01	< 0.01	0.39	0.15	
CND-161	Lowell Rd bridge, Concord	8/20/2017	6:40 AM	3	0.02	< 0.01	0.45	0.2	
SUD-005	Rte 62 Boat House, Concord	8/20/2017	6:10 AM	8	< 0.01	< 0.01	< 0.05	0.18	
SUD-064	Sherman Br Rd, Wayland	8/20/2017	6:07 AM	9	0.03	< 0.01	0.08	0.2	
SUD-086	River Rd, Wayland	8/20/2017	6:30 AM	4	0.04	0.02	0.15	0.23	
SUD-096	Rte 20, Wayland	8/20/2017	6:51 AM	5	0.04	0.02	0.15	0.24	
SUD-144	Sudbury Landing, Framingham	8/20/2017	7:49 AM	2	0.11	< 0.01	0.23	0.13	
Summary Statistics for Mainstem Sites									
				Maximum	14	0.11	0.02	9.8	0.33
				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	8/20/2017	6:25 AM	NR	NR	< 0.01	0.12	< 0.1	
ELZ-004	Elizabeth Br, Stow	8/20/2017	7:50 AM	2	< 0.01	< 0.01	0.13	< 0.1	
HBS-016	Hop Br, Sudbury	8/20/2017	7:08 AM	5	0.05	0.04	0.44	0.19	
HOP-011	Hop Br, Northboro	8/20/2017	6:54 AM	2	< 0.01	< 0.01	< 0.05	< 0.1	
NSH-002	Nashoba, Commonwealth, W. Con	8/20/2017	7:45 AM	1	0.02	< 0.01	0.14	0.18	
NSH-047	Nashoba, Wheeler Ln, Acton	8/20/2017	7:20 AM	2	0.02	< 0.01	0.11	0.18	
NTH-009	North Br, Berlin	8/20/2017	8:28 AM	2	< 0.01	< 0.01	0.2	0.13	
RVM-005	River Mead, Thorndike, Lowell	8/20/2017	7:45 AM	9	< 0.01	< 0.01	0.28	0.33	
Summary Statistics for Tributary Sites									
				Maximum	9	0.05	0.04	0.44	0.33
				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 ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	8/20/2017	6:20 AM	22.68	69.0	5.94	766	7.56
ABT-062	Rte 62, Acton	8/20/2017	6:00 AM	24.53	90.5	7.53	808	7.76
ABT-077	Rte 27/USGS, Maynard	8/20/2017	8:30 AM	23.83	88.4	7.44	784	7.57
ABT-095	White Pond Rd, Stow	8/20/2017	8:05 AM	24.32	95.4	7.98	835	7.35
ABT-134	Sudbury Rd, Stow	8/20/2017	7:23 AM	24.60	90.3	7.54	1028	7.59
ABT-144	Rte 62, Stow	8/20/2017	7:10 AM	23.67	90.9	7.77	1044	7.48
ABT-162	Cox St, Hudson	8/20/2017	6:53 AM	23.10	51.2	4.38	1029	7.26
ABT-237	Robin Hill Rd, Marlboro	8/20/2017	8:05 AM	20.28	69.2	5.85	1078	7.37
ABT-301	Rte 9, Westboro	8/20/2017	7:14 AM	21.53	82.4	7.23	1299	7.20
ABT-312	Mill Road, Westboro	8/20/2017	7:35 AM	20.12	88.0	7.97	346	7.89
CND-009	Rogers St, Lowell	8/20/2017	7:32 AM	23.63	92.6	7.83	708	7.45
CND-045	Lowell St, Billerica	8/20/2017	7:05 AM	24.31	83.9	7.01	616	7.34
CND-110	Rte 225, Bedford	8/20/2017	6:33 AM	24.19	85.4	7.15	653	7.34
CND-161	Lowell Rd bridge, Concord	8/20/2017	6:40 AM	23.86	77.0	6.48	724	7.41
SUD-005	Rte 62 Boat House, Concord	8/20/2017	6:10 AM	20.08	60.1	5.05	627	7.22
SUD-064	Sherman Br Rd, Wayland	8/20/2017	6:07 AM	21.18	63.3	5.35	725	7.51
SUD-086	River Rd, Wayland	8/20/2017	6:30 AM	23.97	53.3	4.48	695	7.34
SUD-096	Rte 20, Wayland	8/20/2017	6:51 AM	22.93	43.9	3.74	662	7.24
SUD-144	Sudbury Landing, Framingham	8/20/2017	7:49 AM	21.60	66.3	5.82	1035	7.16

### Summary Statistics for Mainstem Sites

Maximum	24.60	95.4	7.98	1299	7.89
Minimum	20.08	43.9	3.74	346	7.16

## 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 ( $\mu$ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	8/20/2017	6:25 AM	20.28	88.7	8.02	258	7.59
ELZ-004	Elizabeth Br, Stow	8/20/2017	7:50 AM	21.82	40.4	3.54	423	7.31
HBS-016	Hop Br, Sudbury	8/20/2017	7:08 AM	21.57	31.6	2.82	598	7.20
HOP-011	Hop Br, Northboro	8/20/2017	6:54 AM	22.70	81.9	6.90	1057	7.04
NSH-002	Nashoba, Commonwealth, W. Concor	8/20/2017	7:45 AM	22.21	61.6	5.35	642	7.22
NSH-047	Nashoba, Wheeler Ln, Acton	8/20/2017	7:20 AM	21.06	67.8	6.03	790	7.11
NTH-009	North Br, Berlin	8/20/2017	8:28 AM	20.91	77.7	6.93	309	7.34
RVM-005	River Mead, Thorndike, Lowell	8/20/2017	7:45 AM	21.07	78.4	6.96	1040	7/-8

### Summary Statistics for Tributary Sites

Maximum	22.70	88.7	8.02	1057	7.59
Minimum	20.28	31.6	2.82	258	7.00

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

<b>Mainstem</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
SUD-005	Rte 62 Boat House, Concord	8/18/2017	9:35 AM	11.9
SUD-064	Sherman Br Rd, Wayland	8/18/2017	9:55 AM	5.48
SUD-086	River Rd, Wayland	8/18/2017	10:06 AM	3.84
SUD-096	Rte 20, Wayland	8/18/2017	10:14 AM	3.90
SUD-144	Sudbury Landing, Framingham	8/18/2017	10:38 AM	<2.00

### Summary Statistics for Mainstem Sites

Maximum	11.9
Minimum	<2.00

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<b>Tributary</b>				Chl a
Site Number	Location	Date	Time	( $\mu\text{g/L}$ )
HBS-016	Hop Br, Sudbury	8/18/2017	10:22 AM	2.60

### Summary Statistics for Tributary Sites

Maximum	2.6
Minimum	2.6

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

<b>Mainstem</b>				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	9/17/2017	6:20 AM	4	0.01	< 0.01	1.8	< 0.1
ABT-077	Rte 27/USGS, Maynard	9/17/2017	8:41 AM	2	0.02	< 0.01	1.7	< 0.1
ABT-312	Mill Road, Westboro	9/17/2017	7:10 AM	<1	0.03	< 0.01	0.19	< 0.1
CND-009	Rogers St, Lowell	9/17/2017	7:55 AM	2	< 0.01	< 0.01	1.4	< 0.1
CND-161	Lowell Rd bridge, Concord	9/17/2017	6:55 AM	26	0.01	< 0.01	1.1	< 0.1
SUD-005	Rte 62 Boat House, Concord	9/17/2017	7:01 AM	9	0.03	< 0.01	< 0.05	< 0.1
SUD-064	Sherman Br Rd, Wayland	9/17/2017	6:37 AM	8	0.04	< 0.01	0.08	< 0.1
SUD-086	River Rd, Wayland	9/17/2017	7:08 AM	13	0.03	< 0.01	0.12	0.11
SUD-096	Rte 20, Wayland	9/17/2017	7:28 AM	5	0.03	0.02	0.13	< 0.1
SUD-144	Sudbury Landing, Framingham	9/17/2017	8:18 AM	<1	< 0.01	< 0.01	0.08	< 0.1

### Summary Statistics for Mainstem Sites

Maximum	26	0.04	0.02	1.8	0.11
Minimum	<1	< 0.01	< 0.01	< 0.05	< 0.1

<b>Tributary</b>				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	9/17/2017	7:00 AM	1	0.02	< 0.01	0.15	< 0.1
ELZ-004	Elizabeth Br, Stow	9/17/2017	8:05 AM	36	0.05	< 0.01	0.13	< 0.1
HBS-016	Hop Br, Sudbury	9/17/2017	7:50 AM	2	0.04	0.03	0.34	< 0.1
HOP-011	Hop Br, Northboro	9/17/2017	7:51 AM	<1	< 0.01	< 0.01	< 0.05	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	9/17/2017	7:50 AM	<1	< 0.01	< 0.01	< 0.05	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	9/17/2017	7:20 AM	2	< 0.01	< 0.01	< 0.05	< 0.1
NTH-009	North Br, Berlin	9/17/2017	8:45 AM	2	< 0.01	< 0.01	0.15	< 0.1
RVM-005	River Mead, Thorndike, Lowell	9/17/2017	8:27 AM	30	0.03	< 0.01	0.17	0.15

### Summary Statistics for Tributary Sites

Maximum	36	0.05	0.03	0.34	0.15
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

<b>Mainstem</b>				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	9/18/2017	8:10 AM	<1	0.01	< 0.01	9.2	< 0.1	
Summary Statistics for Mainstem Sites									
				Maximum	<1	0.01	< 0.01	9.2	< 0.1
				Minimum	<1	0.01	< 0.01	9.2	< 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 ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	9/17/2017	6:20 AM	20.73	66.6	5.96	785	7.57
ABT-077	Rte 27/USGS, Maynard	9/17/2017	8:41 AM	22.00	84.4	7.38	752	7.85
ABT-095	White Pond Rd, Stow	9/17/2017	8:19 AM	19.74	81.3	7.43	652	7.46
ABT-134	Sudbury Rd, Stow	9/17/2017	7:45 AM	23.16	99.9	8.54	947	7.77
ABT-162	Cox St, Hudson	9/17/2017	7:25 AM	21.28	67.8	6.01	1067	7.46
ABT-312	Mill Road, Westboro	9/17/2017	7:10 AM	18.47	90.4	8.47	368	7.45
CND-009	Rogers St, Lowell	9/17/2017	7:55 AM	21.79	90.4	7.92	806	7.49
CND-161	Lowell Rd bridge, Concord	9/17/2017	6:55 AM	21.99	79.6	6.95	748	7.61
SUD-005	Rte 62 Boat House, Concord	9/17/2017	7:01 AM	22.36	78.2	6.77	647	7.21
SUD-064	Sherman Br Rd, Wayland	9/17/2017	6:37 AM	22.73	61.6	5.30	706	7.16
SUD-086	River Rd, Wayland	9/17/2017	7:28 AM	22.06	53.2	4.64	650	7.13
SUD-096	Rte 20, Wayland	9/17/2017	7:28 AM	21.73	56.8	4.97	668	7.09
SUD-144	Sudbury Landing, Framingham	9/17/2017	8:18 AM	20.84	85.1	7.60	710	7.18

### Summary Statistics for Mainstem Sites

Maximum	23.16	99.9	8.54	1067	7.85
Minimum	18.47	53.2	4.64	368	7.09

## 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 ( $\mu$ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	9/17/2017	7:00 AM	18.08	79.5	753	214	7.37
ELZ-004	Elizabeth Br, Stow	9/17/2017	8:05 AM	20.34	44.9	4.06	389	6.82
HBS-016	Hop Br, Sudbury	9/17/2017	7:50 AM	19.74	56.9	5.16	629	7.11
HOP-011	Hop Br, Northboro	9/17/2017	7:51 AM	21.16	86.6	7.68	794	7.13
NSH-002	Nashoba, Commonwealth, W. Concor	9/17/2017	7:50 AM	20.84	76.9	6.87	659	7.47
NSH-047	Nashoba, Wheeler Ln, Acton	9/17/2017	7:20 AM	20.10	73.6	6.66	758	7.43
NTH-009	North Br, Berlin	9/17/2017	8:45 AM	20.17	89.5	8.12	310	7.10
RVM-005	River Mead, Thorndike, Lowell	9/17/2017	8:27 AM	19.75	90.1	8.22	955	7.07

### Summary Statistics for Tributary Sites

Maximum	21.16	90.1	753.00	955	7.47
Minimum	18.08	44.9	4.06	214	6.82

## 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 ( $\mu$ S/cm)	pH (s.u.)
ABT-301	Rte 9, Westboro	9/18/2017	8:10 AM	20.86	65.4	5.83	1183	7.48

### Summary Statistics for Mainstem Sites

Maximum	20.86	65.4	5.83	1183	7.48
Minimum	20.86	65.4	5.83	1183	7.48

## Assabet River StreamWatch Streamflow Observations Report

<b>Mainstem</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	8/20/2017	8:30 AM	1.45	30.5
ABT-312	Mill Road, Westboro	8/20/2017	7:35 AM	0.99	0.14
CND-009	Rogers St, Lowell	8/20/2017	7:32 AM	4.04	95.2
SUD-144	Sudbury Landing, Framingham	8/20/2017	7:49 AM	3.99	6.15
<b>Tributary</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	8/20/2017	6:25 AM	0.64	0.317
HOP-011	Hop Br, Northboro	8/20/2017	6:54 AM	3.87	0.88
NSH-002	Nashoba, Commonwealth, W. Conc	8/20/2017	7:45 AM	0.86	15.83
NSH-047	Nashoba, Wheeler Ln, Acton	8/20/2017	7:20 AM	3.00	1.38
NTH-009	North Br, Berlin	8/20/2017	8:28 AM	4.04	2.3

## Assabet River StreamWatch Streamflow Observations Report

<b>Mainstem</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	9/17/2017	8:41 AM	1.52	35.9
ABT-312	Mill Road, Westboro	9/17/2017	7:10 AM	0.99	0.14
CND-009	Rogers St, Lowell	9/17/2017	7:55 AM	4.09	106
SUD-144	Sudbury Landing, Framingham	9/17/2017	8:18 AM	4.09	10.4
<b>Tributary</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	9/17/2017	7:00 AM	0.52	0.11
HOP-011	Hop Br, Northboro	9/17/2017	7:51 AM	3.92	1.1
NSH-002	Nashoba, Commonwealth, W. Conc	9/17/2017	7:50 AM	0.77	11.52
NSH-047	Nashoba, Wheeler Ln, Acton	9/17/2017	7:20 AM	3.11	2.80
NTH-009	North Br, Berlin	9/17/2017	8:45 AM	4.03	2.1

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

<b>Mainstem</b>				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	11/12/2017	10:05 AM	2	0.02	< 0.01	1.2	< 0.1
ABT-077	Rte 27/USGS, Maynard	11/12/2017	9:15 AM	1	0.03	< 0.01	1.2	< 0.1
ABT-301	Rte 9, Westboro	11/12/2017	9:53 AM	2	0.04	0.02	12.4	< 0.1
ABT-312	Mill Road, Westboro	11/12/2017	10:17 AM	<1	< 0.01	< 0.01	< 0.05	< 0.1
CND-009	Rogers St, Lowell	11/12/2017	9:25 AM	2	0.03	0.01	0.6	< 0.1
CND-161	Lowell Rd bridge, Concord	11/12/2017	8:20 AM	17	0.04	0.03	0.11	< 0.1
SUD-005	Rte 62 Boat House, Concord	11/12/2017	8:00 AM	3	0.03	0.03	0.14	< 0.1
SUD-144	Sudbury Landing, Framingham	11/12/2017	11:10 AM	1	0.01	< 0.01	0.09	< 0.1

### Summary Statistics for Mainstem Sites

Maximum	17	0.04	0.03	12.4	< 0.1
Minimum	<1	< 0.01	< 0.01	< 0.05	< 0.1

<b>Tributary</b>				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	11/12/2017	8:24 AM	<1	< 0.01	< 0.01	< 0.05	< 0.1
ELZ-004	Elizabeth Br, Stow	11/12/2017	8:46 AM	<1	< 0.01	< 0.01	0.14	< 0.1
HOP-011	Hop Br, Northboro	11/12/2017	9:35 AM	<1	0.01	< 0.01	0.35	< 0.1
NSH-002	Nashoba, Commonwealth, W. Con	11/12/2017	9:45 AM	1	0.02	< 0.01	0.32	< 0.1
NSH-047	Nashoba, Wheeler Ln, Acton	11/12/2017	8:43 AM	1	0.05	< 0.01	0.20	0.18
NTH-009	North Br, Berlin	11/12/2017	9:08 AM	2	< 0.01	< 0.01	0.16	< 0.1

### Summary Statistics for Tributary Sites

Maximum	2	0.05	< 0.01	0.35	0.18
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 ( $\mu$ S/cm)	pH (s.u.)
ABT-026	Rte 2, Concord	11/12/2017	10:05 AM	4.02	100.2	13.09	473	7.26
ABT-077	Rte 27/USGS, Maynard	11/12/2017	9:15 AM	3.81	104.4	13.72	495	7.25
ABT-301	Rte 9, Westboro	11/12/2017	9:53 AM	11.00	99.2	10.87	1487	7.10
ABT-312	Mill Road, Westboro	11/12/2017	10:17 AM	6.40	101.4	12.48	187	7.66
CND-009	Rogers St, Lowell	11/12/2017	9:25 AM	5.53	88.1	11.08	436	NR
CND-161	Lowell Rd bridge, Concord	11/12/2017	8:20 AM	4.57	69.7	8.98	418	NR
SUD-005	Rte 62 Boat House, Concord	11/12/2017	8:00 AM	4.63	69.4	8.92	420	NA
SUD-144	Sudbury Landing, Framingham	11/12/2017	11:10 AM	5.49	103.0	12.97	456	7.30

### Summary Statistics for Mainstem Sites

Maximum	11.00	104.4	13.72	1487	7.66
Minimum	3.81	69.4	8.92	187	7.10

Tributary	Location:	Date	Time	Water Temp (deg C)	DO Sat (%)	DO (mg/l)	Cond ( $\mu$ S/cm)	pH (s.u.)
DAN-013	Danforth Br, Hudson	11/12/2017	8:24 AM	2.35	101.1	13.84	303	7.78
ELZ-004	Elizabeth Br, Stow	11/12/2017	8:46 AM	1.75	83.2	11.55	266	7.43
HOP-011	Hop Br, Northboro	11/12/2017	9:35 AM	3.57	91.1	12.04	509	6.91
NSH-002	Nashoba, Commonwealth, W. Concor	11/12/2017	9:45 AM	3.39	94.5	12.55	367	7.36
NSH-047	Nashoba, Wheeler Ln, Acton	11/12/2017	8:43 AM	3.12	77.9	10.42	452	NR
NTH-009	North Br, Berlin	11/12/2017	9:08 AM	2.14	95.9	13.20	173	6.98

### Summary Statistics for Tributary Sites

Maximum	3.57	101.1	13.84	509	7.78
Minimum	1.75	77.9	10.42	173	6.91

## Assabet River StreamWatch Streamflow Observations Report

<b>Mainstem</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
ABT-077	Rte 27/USGS, Maynard	11/12/2017	9:15 AM	1.97	89.0
ABT-312	Mill Road, Westboro	11/12/2017	10:17 AM	1.30	2.14
CND-009	Rogers St, Lowell	11/12/2017	9:25 AM	4.92	391
SUD-144	Sudbury Landing, Framingham	11/12/2017	11:10 AM	5.57	145
<b>Tributary</b>	Location	Date	Time	Gage Reading (ft)	Streamflow (cfs)
DAN-013	Danforth Br, Hudson	11/12/2017	8:24 AM	0.86	1.34
HOP-011	Hop Br, Northboro	11/12/2017	9:35 AM	4.28	4.45
NSH-002	Nashoba, Commonwealth, W. Conc	11/12/2017	9:45 AM	1.17	34.64
NSH-047	Nashoba, Wheeler Ln, Acton	11/12/2017	8:43 AM	3.64	6.23
NTH-009	North Br, Berlin	11/12/2017	9:08 AM	4.52	15.7