Technical Memorandum

CHICOPEE RIVER WATERSHED 2008
DWM WATER QUALITY MONITORING DATA

May 2013

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Division of Watershed Management
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COMMONWEALTH OF MASSACHUSETTS
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Introduction

The Chicopee River Watershed water quality survey was conducted in 2008 along with benthic macroinvertebrate sampling and fish population sampling as part of the Massachusetts Department of Environmental Protection (MassDEP), Division of Watershed Management (DWM) Year Two monitoring. Consistent with DWM's general approach to watershed monitoring to meet defined programmatic objectives, water quality surveys were conducted during the months of May, June, July, August and September. This technical memorandum is designed to present select final DWM generated water quality monitoring data for use in watershed assessment reports and for reporting data to outside groups. Water quality sampling was conducted side-by-side with the Department of Conservation and Recreation (DCR) Water Supply Quabbin staff during 2008 DWM sampling. These results are presented in Appendix 1. One pond and one impoundment were sampled during the 2008 Chicopee River Watershed survey. These results along with the results of biomonitoring will be reported in separate memoranda.

Project Objectives

The results of the 2008 Chicopee River Watershed water quality monitoring factor into regulatory actions taken by the MassDEP and the United States Environmental Protection Agency (US EPA), are incorporated into DWM's Water Quality Assessment Reports, and are used to update Sections 305(b) and 303(d) reporting elements of the Clean Water Act (CWA). Additionally, these data are used in the development of total maximum daily loads (TMDLs) to address waters not attaining water quality standards and to aid in the development of National Pollutant Discharge Elimination System (NPDES) permits.

The specific objectives of the 2008 Chicopee River Watershed monitoring were as follows:

1) Collect physico-chemical data to assess *Aquatic Life Use*.

2) Collect biological data (benthic macroinveterbrate, fish population, habitat assessments and algal population) to assess *Aquatic Life Use*. Fish population data will also be used to determine whether a cold water fishery exists in segments sampled. The results of the fish population monitoring are detailed in a separate technical memorandum (Maietta *et. al* 2010a).

3) Collect bacteria data to assess *Primary and Secondary Contact Recreational Uses*. Field observations during sampling will be used to assess the *Aesthetics Use*.

4) Screen fish to provide information to the Massachusetts Department of Public Health (MDPH) for public health risk assessment due to fish tissue contaminants (metals, polychlorinated biphenyls (PCBs) and pesticides). The results of 2008 fish toxics monitoring are detailed in a separate technical memorandum (Maietta *et. al* 2010b).

5) Gather water quality data to determine long-term trends in water quality in the Chicopee River Basin.

6) Gather stream temperature data to determine whether a cold-water fishery exists in segments sampled and to determine the impact of point source discharges.

Sampling Plan

Information pertaining to station location, rationale and objectives is available in *Sampling Plan for Year 2008 Surface Water Monitoring in the Chicopee River Basin* (Reardon 2008). For a description of the DWM's general approach to watershed monitoring, see the *QUALITY ASSURANCE PROGRAM*

PLAN, Surface Water Monitoring & Assessment, MA DEP-Division of Watershed Management, 2005-2009 (MassDEP 2005a).

Samples for total phosphorus, total nitrogen, ammonia-nitrogen, color and turbidity, were obtained from a total of forty nine (49) stations. Nitrate/nitrite-nitrogen samples were collected at two stations (Table 1). Samples were taken for *E. coli* analysis at fifty stations (Table 1). Sampling principally entailed five water quality surveys consisting of grab samples for water chemistry and *E. coli* bacteria as well as in-situ measurements. These five surveys were conducted on the following dates: May 20th, June 17th, July 22nd, August 19th and September 23rd. In addition to these five sampling dates an additional bacteria-only sampling run was conducted on July 9th: Metals sampling occurred June 19th and September 11th at three sites in the Chicopee River Watershed (Table 1). Hardness samples were collected at fourteen stations (Table 1).

In-situ measurements of temperature, dissolved oxygen, pH, and conductivity were collected at fifty-two stations (Table 1). Continuous temperature and dissolved oxygen monitoring with unattended probes was carried out for a minimum duration of 24 hours at forty-one sites (Table 1). In August a number of dissolved oxygen probes were deployed in the Ware River to determine the spatial dynamics of dissolved oxygen. Dissolved oxygen monitoring with unattended probes was also completed in the Quaboag River downstream from Quaboag Pond on two separate occasions in September in response to a reported fish kill and to help elucidate the nature of low dissolved oxygen noted during previous water quality surveys.

Continuous temperature monitoring was also conducted at fourteen stations to determine whether a cold-water fishery exists in sampled segments and/or to determine the impact of point source discharges (Table 1).

Table 1. 2008 Chicopee River Watershed Survey: Location of Sampling Stations

Station ID	Unique ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Nitrate/Nitrite-N	Bacteria	Color, Turbidity	Attended Multiprobe	Deployed Multiprobe	Temperature Probe	Metals	Hardness
103A	W1877	Ware River	[east of Riverside Cemetery approximately 175 feet downstream from dilapidated crossing of Covered Bridge Road, Barre]	42.42039	-72.04818					X	X	X		
BOB0.25	W1855	Bottle Brook	[Dunhampton Palmer Road crossing, Brimfield]	42.15340	-72.26180	X		X	X	X		X		X
BSR1.39	W1849	Burnshirt River	[Route 62 (Hubbardston Road), Barre]	42.43629	-72.05267	X		X	X	X	X			
CAB0.11	W1857	Calkins Brook	[east of Crane Hill Road approximately 60 feet from confluence with Twelvemile River, Wilbraham]	42.14821	-72.39956	X		X	X					
CBG*	W0494	Ware River	[south of Route 122 at weir downstream of Shaft #8 water supply intake, Barre.]	42.39121	-72.06456					X	X	X		
CH01	W1033	Chicopee River	[near the intersection of New Hampshire Avenue and Springfield Street, Palmer]	42.17771	-72.37459	X		X	X	X	X			
CH02B	W1032	Chicopee River	[Miller Street/Cottage Avenue bridge, Ludlow/Wilbraham]	42.15694	-72.42316	X		X	X					
CH06	W1031	Chicopee River	[River Street/West Street bridge, Springfield/Ludlow]	42.16061	-72.51020	X		X	X	X	X	X		
CH13.43	W2005	Chicopee River	[Route 90 crossing, Wibraham/Ludlow]	42.15730	-72.40951			X		X	X			
CHB1.73	W1854	Chicopee Brook	[Bunyan Drive, Monson]	42.13136	-72.31003	X		X	X	X	X	X		
CHB2.39	W1871	Chicopee Brook	[Route 32 crossing nearest Bunyan Road, Monson]	42.12432	-72.30749	X		X	X	X				

Table 1 (continued). 2008 Chicopee River Basin Sampling

Station ID	Unique ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Nitrate/Nitrite-N	Bacteria	Color, Turbidity	Attended Multiprobe	Deployed Multiprobe	Temperature Probe	Metals	Hardness
CHB2.482	W2004	Chicopee Brook	[approximatley 450 feet upstream from the Route 32 crossing (in the locality of North Monson), Monson (50 to 60 feet downstream of discharge for general permit MAG250376)]	42.12314	-72.30772							X		
CHB2.544	W2003	Chicopee Brook	[approximatley 30 feet downstream from roll dam at outlet of Chicopee Brook Pond, east of Palmer Road, Monson]	42.12240	-72.30839							X		
CHB3.0	W2002	Chicopee Brook	[upstream of Chicopee Brook Pond, adjacent to GP Well #2, east of Palmer Road, Monson]	42.11644	-72.31117							X		
CHB4.24	W1853	Chicopee Brook	[State Street, Monson]	42.10104	-72.31336	X		X	X	X	X	X	X	X
CHB5.1	W2001	Chicopee Brook	[west of Bliss Street, approximatley 990 feet downstream from Oak Street, Monson]	42.09132	-72.31332								X	X
COB5.88	W1862	Conant Brook	[Route 32 crossing, Monson]	42.08472	-72.31066	X		X	X	X				
CT03A	W2055	Chicopee River	[northern end of Route 116 bridge, Chicopee]	42.15064	-72.60758	X		X	X					X
CT03B	W0475	Chicopee River	[Route 116 bridge, Chicopee.]	42.15037	-72.60764	X	X	X	X	X				
CT03C	W2056	Chicopee River	[southern end of Route 116 bridge, Chicopee]	42.15008	-72.60769	X		X	X					
DAB0.66	W1860	Danforth Brook	[Route 32, Hardwick]	42.31217	-72.20700	X		X	X					
DB07	W1039	Forget-Me-Not Brook	[west of East Brookfield Road approximately 1300 feet downstream of North Brookfield WWTP (MA0101061) discharge, North Brookfield]	42.24499	-72.07375	X		X	X	X	X			

Table 1 (continued). 2008 Chicopee River Basin Sampling

Station ID	Unique ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Nitrate/Nitrite-N	Bacteria	Color, Turbidity	Attended Multiprobe	Deployed Multiprobe	Temperature Probe	Metals	Hardness
DB08	W1040	Forget-Me-Not Brook	[East Brookfield Road/Donovan Road intersection (approximately 1100 feet upstream of the North Brookfield WWTP (MA0101061) discharge), North Brookfield]	42.25059	-72.07474	X		X	X					
DB1.0	W1873	Dunn Brook	[approximately 350 feet upstream of the Route 9 crossing, East Brookfield]	42.21541	-72.07825	X		X	X	X	X			
EB04	W1038	East Brookfield River	[below all Lake Lashaway outlet structures, approximatley 100 feet downstream of Route 9 bridge, East Brookfield]	42.22571	-72.05000	X		X	X	X	X			
EWB60.75	W1848	East Branch Ware River	[Old Colony Road crossing, Princeton]	42.45426	-71.95073	X		X	X	X	X			
FMNB3.68	W1990	Forget-Me-Not Brook	[East Brookfield Road (upstream from North Brookfield WWTP discharge), North Brookfield]	42.24817	-72.07425					X	X			
GAB0.04	W1852	Galloway Brook	[south of Route 122, approximately 50 feet from mouth at Prince River, Barre]	42.40832	-72.09701	X		X	X					
JAB6.53	W1859	Jabish Brook	[Aldrich Street crossing, (upstream of canal diversion), Belchertown]	42.27043	-72.37949	X		X	X					
JAB7.84	W1874	Jabish Brook	[Route 21 (Jabish Street) crossing, Belchertown]	42.28281	-72.39284	X		X	X	X	X			X
JOB6.23	W1861	Joslin Brook	[New Westminster Road crossing, Hubbardston]	42.48098	-71.97580	X		X	X					
KIB0.17	W1864	Kings Brook	[Route 67 crossing, Palmer]	42.16171	-72.26846	X		X	X	X		X		X
MB2.28	W1851	Moose Brook	[approximately 1800 feet south (downstream) of Taylor Hill Road, Hardwick (due east of Brook Road)]	42.37235	-72.16223	X		X	X	X	X			X

Table 1 (continued). 2008 Chicopee River Basin Sampling

Station ID	Unique ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Nitrate/Nitrite-N	Bacteria	Color, Turbidity	Attended Multiprobe	Deployed Multiprobe	Temperature Probe	Metals	Hardness
MUB0.20	W1687	Muddy Brook	[approximately 400 feet upstream from Route 32, Ware]	42.25728	-72.25047	X		X	X					
PEB0.48	W1863	Penny Brook	[south of John Haley Road, approximately 2400 feet upstream of confluence with Quaboag River, Brimfield]	42.16688	-72.25502							X		
POB1.42	W1865	Unnamed Tributary	[unnamed tributary to the Chicopee River locally known as 'Poor Brook', approximately 50 feet from emergence from culvert downstream from Cottage Street, Springfield]	42.14457	-72.54520	X		X	X				X	X
POBDIS	W2006	Unnamed Tributary	[drainage swale to unnamed tributary locally known as 'Poor Brook', approximately 3 feet downstream of pipe from the general permit MAG250947 discharge in the clover leaf of Route 20 eastbound to Route 291 eastbound, Springfield. (not apparent on 1979 Sp	42.14471	-72.54864							X		
POBDWN	W2008	Unnamed Tributary	[unnamed tributary to the Chicopee River locally known as 'Poor Brook', approximately 20 feet downstream from drainage swale receiving general permit MAG250947 discharge, in the cloverleaf of Route 20 eastbound to Route 291 eastbound, Springfield (upstre	42.14501	-72.54879							X		

Table 1 (continued). 2008 Chicopee River Basin Sampling

Station ID	Unique ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Nitrate/Nitrite-N	Bacteria	Color, Turbidity	Attended Multiprobe	Deployed Multiprobe	Temperature Probe	Metals	Hardness
POBUP	W2007	Unnamed Tributary	[unnamed tributary to the Chicopee River locally known as 'Poor Brook', approximately 25 feet upstream from drainage swale receiving general permit MAG250947 discharge in the cloverleaf of Route 20 eastbound to Route 291 eastbound, Springfield]	42.14498	-72.54858							X		
PR2.48	W1850	Prince River	[Route 122 (upstream of Galloway Brook confluence), Barre]	42.40851	-72.09668	X		X	X	X	X			X
QA09A	W1015	Quaboag River	[Palmer Street bridge, Palmer]	42.17314	-72.34600	X		X	X	X	X			
QR0.08	W1875	Quaboag River	[approximately 170 feet upstream of Main Street crossing, Palmer]	42.17982	-72.36401	X		X	X	X				X
QR11.88	W1868	Quaboag River	[east off Route 67 on the Palmer/Warren border approximately 3600 feet south of the Route 67/Warren Road junction, at roadside park, Palmer]	42.19325	-72.26393	X		X	X	X				
QR18.89	W2000	Quaboag River	[approximately 860 feet downstream from Route 19/67, West Brookfield]	42.23468	-72.16498					X				
QR19.02	W1998	Quaboag River	[approximately 150 feet downstream from Route 19/67, West Brookfield]	42.23473	-72.16258					X				
QR19.35	W1997	Quaboag River	[approximately 500 feet downstream from the railroad crossing upstream from Route 19/67, West Brookfield]	42.23249	-72.15786					X				
QR19.62	W1996	Quaboag River	[approximately 250 feet upstream from Route 19/67, West Brookfield]	42.23363	-72.16222					X	X			

Table 1 (continued). 2008 Chicopee River Basin Sampling

Station ID	Unique ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Nitrate/Nitrite-N	Bacteria	Color, Turbidity	Attended Multiprobe	Deployed Multiprobe	Temperature Probe	Metals	Hardness
QR19.87	W1995	Quaboag River	[Old Long Hill Road, West Brookfield]	42.22870	-72.14937	X		X	X	X	X			X
QR20.74	W1867	Quaboag River	[approximatley 1500 feet upstream of Long Hill Road crossing, West Brookfield]	42.21263	-72.20365						X			
QR21.96	W1994	Quaboag River	[approximately 6400 feet downstream from Route 148 (Fiskdale Road), Brookfield]	42.21247	-72.12297						X			
QR22.07	W1993	Quaboag River	[approximately 5800 feet downstream from Route 148 (Fiskdale Road), Brookfield]	42.21244	-72.12067						X			
QR23.34	W1992	Quaboag River	[approximately 2200 feet downstream from Route 148 (Fiskdale Road), Brookfield]	42.20912	-72.10996					X	X			
QR23.66	W1991	Quaboag River	[approximately 650 feet downstream from Route 148 (Fiskdale Road), Brookfield]	42.20820	-72.10431					X	X			
QRG*	W0491	Quaboag River	[east of Route 67, (near USGS flow gauging station #01176000), Palmer/Brimfield.]	42.18143	-72.26354					X	X			
SM01	W1036	Sevenmile River	[approximately 200 feet upstream of Route 9 (West Main Street) bridge, Spencer]	42.23246	-72.01638	X		X	X	X	X			
SM29.2	W1870	Sevenmile River	[Bridge Street crossing, East Brookfield]	42.22388	-72.04471	X		X	X					X
SM32.6	W1876	Sevenmile River	[Smithville Road crossing, Spencer]	42.25000	-72.00845	X		X	X	X	X			
SMG*	W0490	Sevenmile River	[Cooney Road at USGS flow gauging station #01175670, Spencer.]	42.26478	-72.00492					X	X			
SR02	W1013	Swift River	[Route 181, Belchertown/Palmer]	42.21071	-72.34642	X		X	X	X	X			

Table 1 (continued). 2008 Chicopee River Basin Sampling

Station ID	Unique ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Nitrate/Nitrite-N	Bacteria	Color, Turbidity	Attended Multiprobe	Deployed Multiprobe	Temperature Probe	Metals	Hardness
SR03	W1012	Swift River	[Cold Spring Road/Old Belchertown Road, Belchertown/Ware (bridge under repair in 2003)]	42.24327	-72.33476	X		X	X	X	X			
SRG*	W0493	Swift River	[at USGS flow gauging station #01175500 west of River Road, Ware/Belchertown.]	42.26798	-72.33276					X	X			
TUB33.95	W1856	Turkey Hill Brook	[Wire Village Road/Hastings Road crossing, Spencer]	42.26298	-71.99318	X		X	X	X	X			X
TWB0.66	W1858	Twelvemile Brook	[approximately 75 feet downstream from Crane Hill Road, Wilbraham (Calkin Brook confluence just upstream of road)]	42.14809	-72.40009	X		X	X	X	X			X
QA06A	W1011	Quaboag River	[Gilbert Road bridge, Warren]	42.21008	-72.24556	X		X	X	X				
WA06A	W1009	Ware River	[Upper Church Street, Ware]	42.28485	-72.21590	X		X	X	X	X			
WA09A*	W0492	Ware River	[Route 32 at Gibbs Crossing, Ware.]	42.23873	-72.28576					X	X			
WA12	W1014	Ware River	[Route 181, Palmer]	42.19156	-72.34983	X		X	X	X	X			
WAWVA	W1847	Ware River	[approximately 20 feet downstream of Vernon Avenue, Barre]	42.39042	-72.08027	X		X	X	X				
WAX	W1008	Ware River	[Creamery Road/Unitas Road, Hardwick/New Braintree]	42.32098	-72.17469	X		X	X	X	X			
WB0.04	W1999	Unnamed Tributary	[Unnamed tributary to Quaboag River (outlet of Wickaboag Pond) approximately 350 feet downstream from Route 9 crossing, West Brookfield]	42.23562	-72.16248					X				
WR02	W1869	Ware River	[Route 32 (Wheelwright Road) crossing in the locality of Barre Plains, Barre]	42.38036	-72.11410	X		X	X					
WR22.02	W1872	Ware River	[Summer Street crossing, Palmer]	42.20455	-72.31865	X		X	X	X				

Table 1 (continued). 2008 Chicopee River Basin Sampling

Station ID	Unique ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen,Total Phosphorus, Ammonia-N	Nitrate/Nitrite-N	Bacteria	Color, Turbidity	Attended Multiprobe	Deployed Multiprobe	Temperature Probe	Metals	Hardness
WR23.93	W2009	Ware River	[approximately 200 feet upstream of the Wheelwright Pond Dam, Hardwick/New Braintree]	42.35310	-72.13698					X	X			
WR25.30	W2010	Ware River	[approximately 1000 feet upstream from Barre/New Braintree/Hardwick border, Barre]	42.36523	-72.12006					X	X			
WR34	W1866	Ware River	[Ware-Hardwick Covered Bridge (Old Gilbertville Road/Bridge Street), Ware/Hardwick]	42.31011	-72.21196	X		X	X	X	X			
WR39.16	W2011	Ware River	[approximately 200 feet upstream from Red Bridge Road/Hardwick Road, Hardwick/New Braintree]	42.34355	-72.15714	X		X	X	X	X			

*also Central Regional Office Strategic Monitoring and Assessment for River basin Teams (SMART) station

Field and Analytical Methods

Procedures used for water sampling and sample handling are described in the *Sample Collection Techniques for DWM Surface Water Quality Monitoring* (MassDEP 2004) and *Ambient Trace Metal Sampling* (MassDEP 2007a). The Wall Experiment Station (WES) in Lawrence, MA supplied all sample bottles and field preservatives, which were prepared according to the WES *Laboratory Quality Assurance Plan and Standard Operating Procedures* (MassDEP 2001). Procedures for multi-probe calibration and deployment are described in *Water Quality Multi-probe Data Collection* (MassDEP 2005b) and *Multi-probe Deployments for Continuous Unattended Water Quality Data Collection* (MassDEP 2007b). Temperature loggers were deployed using standard procedures outlined in *Continuous Temperature Monitoring using Temperature-only Loggers* (MassDEP 2007c).

Wade-in grab samples were also collected and sent to Wall Experiment Station (WES) in Lawrence, MA where they were analyzed for low-level total phosphorus (TP), total nitrogen (TN), ammonia as nitrogen (NH_3-N), nitrate-nitrite as nitrogen (NO2-NO3-N) and hardness as appropriate. Hardness samples were also analyzed at the DWM laboratory in Worcester, MA. *E. coli* bacteria samples were analyzed at Test America Laboratories Inc. in Westfield, MA. Color and turbidity were analyzed at the DWM laboratory in Worcester, MA. *In- situ* parameters measured using a multi-probe included dissolved oxygen, percent saturation, pH, conductivity, temperature, and total dissolved solids.

Concurrent with the collection of water quality samples, site characteristics and sampling conditions were recorded on DWM field sheets. Riparian vegetation, observed uses, potential pollution sources, the presence/absence of objectionable deposits (trash, debris and scum), the extent of periphyton/algae/aquatic plant growth within the sampling reach, and sampling conditions were all noted at each station (Table 2).

Quality Assurance and Quality Control

Monitoring data collected as part of the 2008 Chicopee River Watershed sampling project has generally met the specific programmatic data quality objectives (DQOs) outlined in the applicable quality assurance project plan (MassDEP 2005a) or has met data validation criteria sufficient for publication. Quality assurance for watershed monitoring by the DWM is provided to ensure implementation of an effective and efficient sampling design, and to provide data to meet specific data quality objectives.

The metals sampling surveys were done concurrently with metals sampling in the Blackstone River Watershed on June 19th and September 11th. In order to conserve filters and materials, quality control samples (field blanks and duplicates) were taken for the whole day's sampling for both the Blackstone River Watershed sampling and the Chicopee River Watershed sampling. On June 19th eleven metals samples were taken as part of the Blackstone River Watershed sampling and three metals samples were taken as part of Chicopee River sampling and only one duplicate and blank associated with the Blackstone River watershed was taken. On September 11th five metals samples were taken as part of the Blackstone River Watershed sampling, three metals samples were taken as part of Chicopee River sampling, and one duplicate and blank associated with the Blackstone River watershed was taken. With the exception of the metals sampling, for water quality surveys, quality control samples (field blanks and duplicates) were taken at a minimum of one each per analyte per crew per survey.

DWM quality assurance and database management staff reviewed lab data reports and all multi-probe data. The data were validated and finalized per appropriate data validation procedures as outlined in *DWM Water Quality Data Validation Process (Summary)* (MassDEP 2012a). Detailed data validation procedures for laboratory data, attended multi-probe data and unattended multi-probe data were conducted using appropriate procedures (MassDEP 2012b, MassDEP 2012c, MassDEP 2012d). A complete summary of the review process for all 2008 DWM data is provided in the *Water Quality Data Validation Report for Year 2008 Project Data* (MassDEP 2012e). Appendix 2 of this technical memorandum contains definitions for all data qualifiers (MassDEP 2012e).

Station Observations

Station observations were recorded on field sheets for each survey by a DWM investigator. Station observations are described below in Table 2 for each DWM sampling event (MassDEP 2008). Note: If multiple types of periphyton were observed, the highest observed density is used in this table.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded

Table 2. 2008 Field observations from MassDEP DWM surveys

											Areal Density				
Station ID	**DATE**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
103A	6/13/08	9:43	Flowing	Musty (Basement)	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
103A	6/18/08	16:05	Flowing	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
103A	7/18/08	9:36	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
103A	8/15/08	9:27	NR	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
BOB0.25	5/20/08	12:10	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	D
BOB0.25	6/10/08	14:24	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
BOB0.25	6/17/08	11:50	Flowing	N	Clear	Clear	No		No		N	N	N	N	N
BOB0.25	7/9/08	11:48	Flowing	N	Clear	Clear	No		Yes	Other: tire (only 1)	N	NR	NR	NR	S
BOB0.25	7/22/08	12:12	Flowing	N	Clear	Clear	No		Yes	Trash (light)	N	NR	S	NR	S
BOB0.25	8/19/08	11:25	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		S	NR	S	NR	NR
BOB0.25	9/23/08	12:05	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	S
BSR1.39	5/20/08	9:24	Flowing	N	Clear	Reddish	No		No		N	M	NR	NR	NR
BSR1.39	6/13/08	9:03	Flowing	Sulfide (rotten egg)	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
BSR1.39	6/17/08	9:18	Flowing	Musty (Basement)	Clear	Dark Tan	No		No		N	NR	NR	NR	S
BSR1.39	7/9/08	9:25	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	S
BSR1.39	7/18/08	9:12	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
BSR1.39	7/22/08	9:25	Flowing	N	Clear	Light Yellow/Tan	Yes	foam; foam-natural build up around beaverdam)	No		N	NR	NR	NR	S
BSR1.39	8/15/08	9:01	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
BSR1.39	8/19/08	9:45	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	D
BSR1.39	9/23/08	9:17	Flowing	Musty (Basement)	Clear	Dark Tan	Yes	Foam (natural)	No		N	NR	NR	NR	S
CAB0.11	5/20/08	10:41	Flowing	N	Clear	Clear	No		No		N	N	N	N	N
CAB0.11	6/17/08	10:45	Flowing	N	Clear	Light Yellow/Tan	Yes	foam	No		S	NR	NR	NR	S
CAB0.11	7/9/08	10:34	Flowing	N	Clear	Clear	Yes	foam; natural foam	No		N	NR	S	NR	NR
CAB0.11	7/22/08	10:57	Flowing	Musty (Basement)	Clear	NR	Yes	Foam (natural)	No		N	N	N	N	N
CAB0.11	8/19/08	10:45	Flowing	N	Clear	Clear	No		No		N	M	NR	NR	NR
CAB0.11	9/23/08	10:35	Flowing	N	Clear	Clear	Yes	other; bacteria sheen in pool	No		N	N	N	N	N
CBG*	6/13/08	10:47	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
CBG*	6/18/08	17:01	NR	NR	NR	NR	Not Applicable - Probe Deploy Field Sheet								
CBG*	7/18/08	10:34	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CBG*	8/15/08	10:45	Flowing	N	Slightly Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								
CBG*	9/30/08	9:21	Flowing	N	Clear	Dark Tan	Yes	Foam(natural below dam)	No		U	U	U	U	U
CH01	5/20/08	10:10	Flowing	N	Clear	Light Yellow/Tan	Yes		No		U	U	U	U	U
CH01	6/16/08	14:32	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CH01	6/17/08	10:12	Flowing	Musty (Basement)	Slightly Turbid	Clear	Yes	Foam, pollen/dust blankets (Foam natural)	No		U	U	U	U	U
CH01	7/9/08	10:05	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	oily sheens, pollen/dust blankets	Yes	Trash (underpants)	M	U	U	U	U
CH01	7/21/08	18:20	Flowing	N	Slightly Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								
CH01	7/22/08	10:23	Flowing	N	Clear	Light Yellow/Tan	Yes	pollen/dust blankets	No		S	N	N	N	N
CH01	8/18/08	11:57	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CH01	8/19/08	10:20	Flowing	N	Clear	Light Yellow/Tan	No		No		U	U	U	U	U
CH01	9/23/08	10:05	Flowing	N	Moderately Turbid	Light Yellow/Tan	Yes	Foam	Yes	Trash (moderate)	S	U	U	U	U

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
CH02B	5/20/08	11:00	Flowing	N	Clear	Clear	Yes	foam, oily sheens; distinct "streams" of oily film, may be from power station? upstream	No		U	U	U	U	U
CH02B	6/17/08	11:08	Flowing	N	Clear	Clear	No		No		S	N	N	N	N
CH02B	7/9/08	10:50	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	oily sheens	No		N	U	U	U	U
CH02B	7/22/08	11:17	Flowing	Other - Pond	Clear	Light Yellow/Tan	No		Yes	trash; light trash	S	NR	S	S	NR
CH02B	8/19/08	10:56	Flowing	N	Clear	Other (tan)	No		No		U	U	U	U	U
CH02B	9/23/08	10:45	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		U	U	U	U	U
CH06	5/20/08	11:30	Flowing	N	Clear	Clear	Yes	foam; unknown origin	No		U	U	U	U	U
CH06	6/2/08	13:10	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
CH06	6/16/08	16:02	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CH06	6/17/08	11:48	Flowing	N	Slightly Turbid	Clear	Yes	Foam, Other (large limbs of trees)	No		U	U	U	U	U
CH06	7/9/08	11:12	Flowing	N	Clear	Light Yellow/Tan	Yes	foam	No		M	U	U	U	U
CH06	7/21/08	16:24	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
CH06	7/22/08	11:54	Flowing	N	Clear	Light Yellow/Tan	No		Yes	Trash (light debris)	M	U	U	U	U
CH06	8/18/08	13:02	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CH06	8/19/08	11:30	Flowing	N	Clear	Light Yellow/Tan	Yes	foam (natural)	Un-Observable		U	U	U	U	U
CH06	9/23/08	11:10	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	Foam(natural)	No		M	U	U	U	U
CH13.43	6/16/08	17:00	Flowing	Musty (Basement)	Slightly Turbid	Clear	Not Applicable - Probe Deploy Field Sheet								
CH13.43	7/9/08	12:37	Flowing	N	Clear	Clear	No		No		N	U	U	U	U
CH13.43	7/21/08	17:17	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
CH13.43	8/18/08	11:11	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CHB1.73	5/20/08	9:46	Flowing	N	Clear	Clear	No		No		N	S	S	NR	NR
CHB1.73	6/10/08	13:07	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
CHB1.73	6/16/08	13:42	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CHB1.73	6/17/08	9:40	Flowing	N	Moderately Turbid	Light Yellow/Tan	Yes	Foam (natural)	No		U	U	U	U	U
CHB1.73	7/9/08	9:44	Flowing	N	Slightly Turbid	Brownish	No		No		S	N	N	N	N
CHB1.73	7/21/08	14:34	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CHB1.73	7/22/08	9:53	Flowing	N	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
CHB1.73	8/18/08	11:43	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CHB1.73	8/19/08	9:58	Flowing	N	Clear	Light Yellow/Tan	Yes	oily sheens maybe automotive	Yes	lobster shell	M	M	NR	NR	NR
CHB1.73	9/23/08	9:42	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		N	N	N	N	N
CHB2.39	5/20/08	9:36	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	NR
CHB2.39	6/17/08	9:18	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Un-Observable		No		U	U	U	U	U
CHB2.39	7/9/08	9:33	Flowing	N	Clear	Light Yellow/Tan	No		Yes	Trash (moderate amount)	N	NR	M	NR	NR
CHB2.39	7/22/08	9:38	Flowing	N	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
CHB2.39	8/19/08	9:45	Flowing	N	Clear	Clear	No		No		S	N	N	N	N
CHB2.39	9/23/08	9:28	Flowing	N	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
CHB2.482	6/2/08	16:40	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
CHB2.544	6/2/08	16:16	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
CHB3.0	6/2/08	15:10	Flowing	N	Clear	Brownish	Not Applicable - Probe Deploy Field Sheet								
CHB4.24	5/20/08	9:11	Flowing	N	Clear	Clear	Yes	foam; slight	No		N	NR	S	NR	NR
CHB4.24	6/2/08	14:18	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
CHB4.24	6/16/08	13:13	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CHB4.24	6/17/08	9:00	Flowing	N	Slightly Turbid	Brownish	Yes	Foam (natural)	No		N	U	U	U	U
CHB4.24	6/19/08	14:35	Flowing	N	Clear	Light Yellow/Tan	No		Yes	Trash (light)	N	NR	S	NR	NR
CHB4.24	7/9/08	9:10	Flowing	N	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
CHB4.24	7/21/08	14:02	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
CHB4.24	7/22/08	9:18	Flowing	N	Clear	Clear	Yes	Foam (natural foam)	No		N	NR	M	NR	NR

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
CHB4.24	8/18/08	11:20	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
CHB4.24	8/19/08	9:24	Flowing	N	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
CHB4.24	9/11/08	9:25	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	Foam (natural)	No		N	N	N	N	N
CHB4.24	9/23/08	9:15	Flowing	N	Clear	Clear	No		No		N	N	N	N	N
CHB5.1	6/19/08	14:30	Flowing	Musty (Basement)	Clear	Other (Rusty/orangish)	Yes	Foam (mostly natural)	No		N	NR	NR	NR	S
CHB5.1	9/11/08	9:00	Flowing	N	Clear	Reddish Light Yellow	Yes	Foam (natural)	No		U	U	U	U	U
COB5.88	5/20/08	8:55	Flowing	N	Clear	Brownish	No		No		N	NR	S	NR	NR
COB5.88	6/17/08	8:40	Flowing	N	Clear	Brownish	No		No		U	U	U	U	U
COB5.88	7/9/08	9:00	Flowing	N	Clear	Light Yellow/Tan	No		No		N	M	NR	NR	NR
COB5.88	7/22/08	8:56	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (appears natural)	No		N	N	N	N	N
COB5.88	8/19/08	9:05	Flowing	N	Clear	Brownish	Yes	foam, natural	No		N	N	N	N	N
COB5.88	9/23/08	9:01	Flowing	N	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
CT03A	5/20/08	12:40	Flowing	N	Clear	Clear	Yes	foam -unknown origin	U		U	U	U	U	U
CT03A	6/17/08	12:55	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	foam; natural foam	No		U	U	U	U	U
CT03A	7/22/08	13:24	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam	Yes	Trash (minor)	U	M	NR	NR	NR
CT03A	8/19/08	12:15	Flowing	NR	NR	NR	NR		NR		NR	NR	NR	NR	NR
CT03A	9/23/08	12:14	Flowing	Effluent (Treated)	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	D
CT03B	5/20/08	12:52	Flowing	N	Clear	Clear	Yes	foam; unknown origin	U		U	U	U	U	U
CT03B	6/17/08	13:00	Flowing	Unobservable	Un-Observable bridge drop	Un-Observable	No		No		U	U	U	U	U
CT03B	7/9/08	12:30	Flowing	N	Clear	Clear	No		No		N	U	U	U	U
CT03B	7/22/08	13:29	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (natural)	Yes	Trash (minor)	N	D	NR	NR	NR
CT03B	8/19/08	12:34	Flowing	NR	Clear	Other (Tan)	No		No		S	M	NR	NR	NR
CT03B	9/23/08	12:21	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	D
CT03C	5/20/08	13:05	Flowing	N	Clear	Clear	No		No		U	U	U	U	U

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
CT03C	6/17/08	13:15	Flowing	Unobservable	Un-Observable bridge drop	Un-Observable bridge drop	Yes	foam; natural foam	No		U	U	U	U	U
CT03C	7/9/08	12:45	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	NR
CT03C	7/22/08	13:41	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (natural)	Yes	Trash (minor)	N	N	N	N	N
CT03C	8/19/08	12:38	Flowing	NR	NR	NR	NR		NR		NR	NR	NR	NR	NR
CT03C	9/23/08	12:26	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	D
DAB0.66	5/20/08	11:44	Flowing	N	Clear	Light Yellow/Tan	No		Yes	trash; some trash present	N	N	N	N	N
DAB0.66	6/17/08	11:51	Flowing	Musty (Basement)	Clear	Dark Tan	Yes	foam; foam pile at debris jam	Yes	trash; some trash, not sufficient to impair	N	N	N	N	N
DAB0.66	7/9/08	11:15	NR	N	Clear	Light Yellow/Tan	Yes	foam; natural foam	No		N	NR	S	NR	NR
DAB0.66	7/22/08	11:52	Flowing	N	Clear	Clear	Yes	Foam	No		N	NR	NR	NR	M
DAB0.66	8/19/08	11:50	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (natural foam)	Yes	Trash (plastic)	N	NR	NR	NR	M
DAB0.66	9/23/08	11:41	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Yes	Foam (natural)	No		N	N	N	N	N
DB07	5/20/08	10:55	Flowing	Effluent (Treated)	Clear	Clear	Yes	other; bubbles	No		S	NR	NR	NR	S
DB07	6/13/08	10:53	Flowing	Other - Effluent	Clear	Greyish	Not Applicable - Probe Deploy Field Sheet								
DB07	6/17/08	10:15	Flowing	Effluent (Treated)	Clear	Clear	No		No		N	NR	M	NR	NR
DB07	7/9/08	9:46	Flowing	Musty (Basement)	Clear	Clear	No		No		N	NR	NR	NR	S
DB07	7/18/08	10:45	Flowing	Other - effluent	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
DB07	7/22/08	10:05	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	S
DB07	8/15/08	10:29	Flowing	Other - Sewage/Septic	Clear	Greyish	Not Applicable - Probe Deploy Field Sheet								
DB07	8/19/08	10:10	Flowing	Effluent (Treated)	Clear	Clear	Yes	Foam	No		N	NR	NR	NR	S
DB07	9/23/08	10:20	Flowing	Effluent (Treated)	Clear	Clear	No		No		N	NR	NR	NR	M
DB08	5/20/08	10:45	Flowing	N	Clear	Clear	No		No		N	S	NR	NR	S
DB08	6/17/08	10:01	Flowing	N	Clear	Clear	No		No		N	NR	S	NR	M
DB08	7/9/08	9:40	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	M
DB08	7/22/08	9:50	Flowing	N	Clear	Clear	No		No		N	NR	S	NR	NR

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
DB08	8/19/08	10:00	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	S
DB08	9/23/08	10:10	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	NR
DB1.0	5/20/08	11:05	Flowing	N	Clear	Other(rusty - orangish)	No		No		M	N	N	N	N
DB1.0	6/13/08	11:30	Flowing	Musty (Basement)	Moderately Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								
DB1.0	6/17/08	10:34	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		U		M	NR	NR	NR	NR
DB1.0	7/9/08	10:00	Flowing	N	Highly Turbid	Light Yellow/Tan	No		Yes	trash light	M	N	N	N	N
DB1.0	7/18/08	11:35	Flowing	Musty (Basement)	Moderately Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								
DB1.0	7/22/08	10:25	Flowing	N	Slightly Turbid	Other (dark yellow)	No	flecks of oil, no large sheens	Yes	Trash (minimal)	M	U	U	U	U
DB1.0	8/15/08	11:01	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
DB1.0	8/19/08	10:23	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		M	S	NR	NR	NR
DB1.0	9/5/08	11:23	Flowing	N	Clear	Reddish									
DB1.0	9/23/08	10:35	Flowing	N	Clear	Light Yellow/Tan	No		No		D	N	N	N	N
EB04	5/20/08	10:24	Flowing	N	Clear	Clear	No		No		VD	NR	NR	NR	NR
EB04	6/13/08	9:50	Flowing	Musty (Basement)	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
EB04	6/17/08	9:44	Flowing	Fishy	Clear	Clear	No		Yes	trash, miscellaneous construction debris	M	S	D	D	NR
EB04	7/9/08	9:25	Flowing	N	Clear	Clear	No		Yes	trash	D	S	S	NR	S
EB04	7/18/08	9:56	Flowing	Musty (Basement)	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
EB04	7/22/08	9:30	Flowing	Fishy	Clear	Clear	No		Yes	Trash	M	NR	M	NR	NR
EB04	8/15/08	9:40	Flowing	N	Slightly Turbid	Clear	Not Applicable - Probe Deploy Field Sheet								
EB04	8/19/08	9:48	Flowing	N	Clear	NR	Yes	Foam (natural)	No		VD	NR	M	NR	S
EB04	9/23/08	9:55	Flowing	Rotting Vegetables	Clear	Light Yellow/Tan	Yes	foam (from Lake Lashaway outlet)	Yes	Trash (in river and on bank)	M	M	M	NR	NR
EWB60.75	5/20/08	8:58	Flowing	N	Clear	Dark Tan	No		No	some real estate signs washed down into stream	N	NR	NR	NR	M
EWB60.75	6/13/08	8:33	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
EWB60.75	6/17/08	8:55	Flowing	N	Clear	Dark Tan	No		No		N	NR	NR	NR	M

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
EWB60.75	7/9/08	9:07	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	D
EWB60.75	7/18/08	8:43	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
EWB60.75	7/22/08	9:00	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	NR	D	NR	NR
EWB60.75	8/15/08	8:20	Flowing	N	Clear	Reddish									
EWB60.75	8/19/08	9:20	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Yes	Foam (natural)	No		N	NR	S	NR	D
EWB60.75	9/23/08	8:55	Flowing	N	Clear	Other (Rusty orangish)	Yes	Foam	No		N	NR	NR	NR	S
FMNB3.68	6/13/08	10:24	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FMNB3.68	7/18/08	10:24	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
FMNB3.68	8/15/08	10:10	Flowing	Musty (Basement)	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
GAB0.04	5/20/08	9:45	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	NR
GAB0.04	6/17/08	9:38	Flowing	N	Clear	Light Yellow/Tan	No		No		NR	NR	S	NR	S
GAB0.04	7/9/08	9:45	NR	N	Clear	Light Yellow/Tan	No		No		NR	NR	S	NR	S
GAB0.04	7/22/08	9:45	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	S
GAB0.04	8/19/08	10:10	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	D	NR	S
GAB0.04	9/23/08	9:38	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	M
JAB6.53	5/20/08	9:51	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		S	N	N	N	N
JAB6.53	6/17/08	9:33	Flowing	Musty (Basement)	Highly Turbid	Light Yellow/Tan	No		Yes	Trash (metal bucket in water)	S	U	U	U	U
JAB6.53	7/9/08	9:42	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Yes	pollen/dust blankets	No		S	NR	NR	VD	NR
JAB6.53	7/22/08	9:50	Flowing	Sulfide (rotten egg)	Slightly Turbid	Light Yellow/Tan	Yes	oily sheens (a little oil near bank)	No		S	U	U	U	U
JAB6.53	8/19/08	9:39	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	No		Yes	trash, plastic bucket underwater	U	U	U	U	U
JAB6.53	9/23/08	9:45	Flowing	N	Clear	Brownish	No		No		S	N	N	N	N
JAB7.84	5/20/08	10:00	Flowing	N	Clear	Clear	No		No		N	N	N	N	N
JAB7.84	6/16/08	16:16	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
JAB7.84	6/17/08	9:45	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	S
JAB7.84	7/9/08	9:55	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	D

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	**DATE**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
JAB7.84	7/21/08	14:56	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
JAB7.84	7/22/08	10:05	NR	Musty (Basement)	Clear	Clear	No		Yes	Other (sand carried in from road runoff)	NR	NR	S	NR	S
JAB7.84	8/18/08	16:26	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
JAB7.84	8/19/08	9:27	Flowing	N	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
JAB7.84	9/23/08	10:00	Flowing	N	Clear	Clear	No		No		N	NR	S	NR	S
JOB6.23	5/20/08	8:32	Flowing	N	Clear	Dark Tan	No		No		N	U	U	U	U
JOB6.23	6/17/08	8:28	Flowing	N	Clear	Dark Tan	No		No		S	U	U	U	U
JOB6.23	7/9/08	8:45	Flowing	N	Clear	Light Yellow/Tan	No		No		S	NR	S	NR	NR
JOB6.23	7/22/08	8:25	Flowing	Musty (Basement)	Un-Observable color	Light Yellow/Tan	No		No		S	N	N	N	N
JOB6.23	8/19/08	8:40	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	No		No		S	U	U	U	U
JOB6.23	9/23/08	8:33	Flowing	N	Clear	Other (Rusty /orangish)	Yes	Foam (natural)	No		U	U	U	U	U
KIB0.17	5/20/08	12:38	Flowing	N	Clear	Clear	No		No		N	S	NR	NR	S
KIB0.17	6/2/08	15:20	NR	N	Clear	Clear									
KIB0.17	6/17/08	12:27	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	S
KIB0.17	7/9/08	11:00	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
KIB0.17	7/22/08	11:55	Flowing	N	Clear	Clear	No		No		N	NR	S	NR	S
KIB0.17	8/19/08	11:55	Flowing	N	Clear	Brownish	No		No		N	NR	NR	NR	S
KIB0.17	9/23/08	12:05	Flowing	Other - metallic	Clear	Clear	No		No		N	NR	S	NR	NR
MB2.28	5/20/08	10:57	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	S
MB2.28	6/13/08	11:40	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
MB2.28	6/17/08	11:05	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	Only Boxchecked
MB2.28	7/9/08	10:40	NR	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	S
MB2.28	7/18/08	11:12	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
MB2.28	7/22/08	11:17	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	NR	NR	M

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
MB2.28	8/15/08	11:28	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
MB2.28	8/19/08	11:15	Flowing	N	Clear	Reddish	No		No		N	NR	NR	NR	S
MB2.28	9/23/08	10:48	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	S
MUB0.20	5/20/08	9:16	Flowing	N	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
MUB0.20	6/17/08	9:08	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	NR	M	NR	NR
MUB0.20	7/9/08	9:05	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (likely natural)	No		N	NR	NR	D	NR
MUB0.20	7/22/08	9:10	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Yes	foam; natural foam	Yes	Trash	N	NR	M	NR	NR
MUB0.20	8/19/08	9:02	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Yes	foam	Yes	trash	N	NR	S	NR	NR
MUB0.20	9/23/08	9:20	Flowing	Musty (Basement)	Clear	Brownish	Yes	foam; natural probably	No		N	NR	M	NR	NR
PEB0.48	6/10/08	13:55	Flowing	Other - Pondwater	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
POB1.42	5/20/08	11:58	Flowing	N	Slightly Turbid	Greyish	Yes	foam, probably not natural	Yes	trash, orange floc, impair aesthetics! (DD), gross (CD)	N	NR	NR	D	NR
POB1.42	6/17/08	12:17	Flowing	N	Slightly Turbid	Other (Yellow)	No		Yes	orange floc	N	NR	NR	VD	NR
POB1.42	6/19/08	13:48	Flowing	N	Clear	Light Yellow/Tan	No		Yes	Trash, orange floc (riduclously trashy and nasty . Impair DD).	N	NR	NR	M	NR
POB1.42	7/9/08	11:30	Flowing	N	Moderately Turbid	Greyish	Yes	foam	Yes	trash; on bank (moderate)	N	NR	NR	M	NR
POB1.42	7/22/08	12:52	Flowing	Petroleum	Clear	Light Yellow/Tan	No		Yes	bricks, light debris	N	NR	NR	S	NR
POB1.42	8/19/08	11:50	Flowing	Musty (Basement)	Highly Turbid	Reddish	No		Yes	trash, orange floc	N	N	N	N	N
POB1.42	9/11/08	10:30	Flowing	Other - iron	Clear	Light Yellow/Tan	No		Yes	orange floc (100% of bottom)	N	N	N	N	N
POB1.42	9/23/08	11:45	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		Yes	trash, orange floc; moderate trash, impair for aesthetics, disgusting site!! D. Davis	N	NR	NR	VD	NR
POBDIS	6/10/08	10:58	Flowing	Other - tap water	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
POBDWN	6/10/08	10:42	Flowing	Petroleum	Moderately Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
POBUP	6/10/08	10:27	Flowing	Petroleum	Moderately Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
PR2.48	5/20/08	9:48	Flowing	N	Clear	Dark Tan	No		No		N	M	NR	NR	M
PR2.48	6/13/08	10:21	Flowing	N	Clear	Clear									
PR2.48	6/17/08	9:41	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	NR
PR2.48	7/9/08	9:40	NR	N	Clear	Light Yellow/Tan	No		Yes	trash - metal sign post, plastics	S	M	S	NR	D
PR2.48	7/18/08	10:07	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
PR2.48	7/22/08	9:50	Flowing	N	Clear	Light Yellow/Tan	No		No		S	NR	S	NR	Only Box checked
PR2.48	8/15/08	10:03	Flowing	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
PR2.48	8/19/08	10:05	Flowing	Other - rusty	Clear	Reddish	No		Yes	Trash (old metal and orange rust flock on side of stream)	S	M	M	NR	D
PR2.48	9/23/08	9:40	Flowing	N	Clear	Other (Rusty/Orangish)	No		No		N	NR	M	NR	S
QA06A	5/20/08	12:05	Flowing	N	Clear	Reddish	No		No		U	S	NR	NR	NR
QA06A	6/17/08	11:28	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	foam; probably natural foam	U		U	U	U	U	U
QA06A	7/9/08	10:40	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	foam - natural	No		N	N	N	N	N
QA06A	7/22/08	11:20	Flowing	N	Clear	Clear	No		No		N	NR	S	NR	NR
QA06A	8/19/08	11:16	Flowing	N	Slightly Turbid	Other (Rusty (orangish)	Yes	Foam (likely natural)	No		U	U	U	U	U
QA06A	9/23/08	11:20	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	foam (foam in back eddy areas - brownish)	No		N	U	U	U	U
QA09A	5/20/08	11:49	Flowing	N	Moderately Turbid	Dark Tan	No		No		U	U	U	U	U
QA09A	6/16/08	17:32	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
QA09A	6/17/08	11:32	Flowing	Musty (Basement) Effluent (treated)	Highly Turbid	Light Yellow/Tan	No		Yes	Trash (front of car, metal bar)	U	NR	M	NR	NR
QA09A	7/9/08	11:27	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Yes	Foam (natural)	No		S	NR	NR	NR	M
QA09A	7/21/08	16:44	Flowing	Musty (Basement) Effluent	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
QA09A	7/22/08	11:42	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Yes	Foam (natural)	Yes	Trash	N	S	M	NR	NR
QA09A	8/18/08	12:55	Flowing	N	Slightly Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								
QA09A	8/19/08	10:58	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	pollen/dust blankets, foam	U	dark water	U	U	U	U	U
QA09A	9/23/08	11:41	Flowing	Musty (Basement)	Clear	Brownish	No		Yes	Trash (slight amount on banks and in water)	N	NR	S	NR	NR
QR0.08	5/20/08	11:28	Flowing	N	Moderately Turbid	Other (light tan)	Yes	foam; very slight foam	No		U	U	U	U	U
QR0.08	6/17/08	11:13	Flowing	Musty (Basement)	Highly Turbid	Light Yellow/Tan	No		No		U	U	U	U	U
QR0.08	7/9/08	11:12	Flowing	Musty (Basement)	Clear	Reddish	Yes	pollen/dust blankets, foam	No		S	U	U	U	U
QR0.08	7/22/08	11:18	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Yes	foam; appears to be natural	Yes	Trash (on banks - not much)	M	NR	S	NR	NR
QR0.08	8/19/08	10:42	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	pollen/dust blankets, foam	U		U	U	U		U
QR0.08	9/23/08	11:27	Flowing	Musty (Basement) slight	Clear	Brownish	Yes	foam (natural likely)	No		S	S	S	NR	S
QR11.88	5/20/08	12:20	Flowing	N	Clear	Light Yellow/Tan	Yes	foam	No		N	S	NR	NR	NR
QR11.88	6/17/08	12:00	Flowing	N	Clear	Light Yellow/Tan	Yes	foam; minor foam	No		N	S	D	NR	S
QR11.88	7/9/08	10:50	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	foam - natural	No		N	N	N	N	N
QR11.88	7/22/08	11:40	Flowing	N	Clear	Clear	No		Yes	Trash	N	S	NR	NR	NR
QR11.88	8/19/08	11:35	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	Foam	No		U	U	U	U	U
QR11.88	9/23/08	11:45	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Yes	Foam (from riffle upstream)	No		N	NR	S	NR	S
QR18.89	9/10/08	14:05	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	Foam	No		U	U	U	U	U
QR19.02	9/10/08	13:40	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		U	U	U	U	U
QR19.35	9/10/08	13:25	Flowing	N	Slightly Turbid	Reddish	No		No		U	U	U	U	U
QR19.62	9/22/08	12:15	Flowing	N	Slightly Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
QR19.87	5/20/08	11:30	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		D	S	NR	NR	NR
QR19.87	6/17/08	10:54	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		VD	M	NR	NR	NR
QR19.87	7/9/08	10:23	NR	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	No		No		D	S	U	U	U

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
QR19.87	7/22/08	10:55	Flowing	N	Clear	Light Yellow/Tan	No		No		M	U	U	U	U
QR19.87	8/19/08	10:40	Flowing	N	Moderately Turbid	Light Yellow/Tan	No		No		S	S	NR	NR	NR
QR19.87	9/10/08	13:07	Flowing	NR	Clear	Light Yellow/Tan	No		No		U	U	U	U	U
QR19.87	9/22/08	12:44	Flowing	N	Slightly Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
QR19.87	9/23/08	10:50	Flowing	Musty (Basement)	Clear	Other (Rusty/orangish)	No		No		M	S	NR	S	NR
QR20.74	9/5/08	14:20	Flowing	N	Clear	Brownish	Not Applicable - Probe Deploy Field Sheet								
QR21.96	9/5/08	13:30	Flowing	N	Clear	Brownish	Not Applicable - Probe Deploy Field Sheet								
QR22.07	9/22/08	13:40	Flowing	N	Slightly Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
QR23.34	9/5/08	12:48	Flowing	N	Clear	Brownish	No		No		D	U	U	U	U
QR23.34	9/22/08	13:15	Flowing	N	Slightly Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
QR23.66	9/5/08	12:18	Flowing	N	Clear	Brownish	No		No		D	U	U		U
QR23.66	9/5/08	12:34	Flowing	N	Moderately Turbid	Brownish	Not Applicable - Probe Deploy Field Sheet								
QRG*	6/13/08	14:34	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
QRG*	7/18/08	12:30	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
QRG*	8/15/08	11:59	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
SM01	5/20/08	9:29	Flowing	N	Clear	Clear	No		No		M	D	NR	NR	M
SM01	6/13/08	9:15	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
SM01	6/17/08	9:10	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		D	NR	D	S	NR
SM01	7/9/08	8:53	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	No		No		M	S	NR	NR	S
SM01	7/18/08	9:25	Flowing	Musty (Basement)	Slightly Turbid	Clear	Not Applicable - Probe Deploy Field Sheet								
SM01	7/22/08	9:03	Flowing	N	Clear	Light Yellow/Tan	No		No		M	Only Box checked	NR	NR	NR
SM01	8/15/08	9:11	Flowing	N	Slightly Turbid	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
SM01	8/19/08	9:18	Flowing	Musty (Basement)	Clear	Clear	Yes	Foam (appears natural)	No		D	NR	NR	M	S

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
SM01	9/5/08	10:20	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
SM01	9/23/08	9:30	Flowing	N	Clear	Light Yellow/Tan	No		No		S	S	NR	S	S
SM29.2	5/20/08	9:57	Flowing	N	Clear	Light Yellow/Tan	No		No		S	NR	M	NR	NR
SM29.2	6/17/08	9:28	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	No		No		S	NR	D	NR	NR
SM29.2	7/9/08	9:14	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	No		No		S	S	M	NR	NR
SM29.2	7/22/08	9:15	Flowing	N	Clear	Clear	No		No		S	NR	S	NR	NR
SM29.2	8/19/08	9:35	Flowing	N	Clear	Light Yellow/Tan	No		No		S	M	D	NR	S
SM29.2	9/23/08	9:45	Flowing	Other - Metallic	Clear	Light Yellow/Tan	Yes	Foam (natural aeration)	No		S	S	S	NR	S
SM32.6	5/20/08	8:52	Flowing	N	Clear	Clear	No		No		S	NR	NR	D	NR
SM32.6	6/17/08	8:35	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		S	NR	NR	M	NR
SM32.6	7/9/08	8:35	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		S	N	N	N	N
SM32.6	7/22/08	8:45	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		S	N	N	N	N
SM32.6	8/19/08	8:56	Flowing	N	Clear	Light Yellow/Tan	No		No		S	N	N	N	N
SM32.6	9/5/08	9:58	Flowing	N	NR	Reddish	Not Applicable - Probe Deploy Field Sheet								
SM32.6	9/23/08	9:05	Flowing	Other - Metallic	Slightly Turbid	Light Yellow/Tan	No		No		M	NR	NR	M	NR
SMG*	6/13/08	8:46	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
SMG*	7/18/08	8:54	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
SMG*	8/15/08	8:36	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
SR02	5/20/08	10:54	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	S
SR02	6/16/08	15:03	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
SR02	6/17/08	10:34	Flowing	Musty (Basement) Effluent (treated)	Clear	Clear	Yes	Foam	Yes	Trash	S	NR	M	NR	M
SR02	7/9/08	10:41	Flowing	N	Clear	Clear	Yes	Foam (foam from upstream dam/impoundment)	No		S	NR	S	NR	NR
SR02	7/21/08	13:35	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
SR02	7/22/08	10:43	Flowing	Musty (Basement)	Clear	Clear	Yes	Foam (natural)	Yes	Trash (light trash)	N	S	M	NR	NR
SR02	8/18/08	15:09	Flowing	NR	NR	NR	Not Applicable - Probe Deploy Field Sheet								
SR02	8/19/08	10:10	Flowing	N	Slightly Turbid	Clear	Yes	foam	Yes	trash	S	U	U	U	U
SR02	9/23/08	10:50	Flowing	Musty (Basement)	Clear	Clear	Yes	Foam (natural likely)	Yes	Trash (slight amount on banks)	S	S	NR	NR	M
SR03	5/20/08	10:30	Flowing	N	Clear	Other (light green	No		No		M	D	NR	NR	NR
SR03	6/16/08	15:28	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
SR03	6/17/08	10:08	Flowing	NR	Clear	Clear	No		Yes	Trash	D	N	N	N	N
SR03	7/9/08	10:15	Flowing	N	Clear	Clear	No		No		M	N	N	N	N
SR03	7/21/08	14:05	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
SR03	7/22/08	10:25	Flowing	N	Clear	Clear	No		No		M	U	U		U
SR03	8/18/08	15:39	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
SR03	8/19/08	9:55	Flowing	N	Slightly Turbid	Clear	Yes	pollen/dust blankets	No		VD	U	U	U	U
SR03	9/23/08	10:18	Flowing	N	Clear	Clear	No		No		M	M	NR	NR	NR
SRG*	6/16/08	15:51	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
SRG*	7/21/08	14:25	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
SRG*	8/18/08	15:59	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
TUB33.95	5/20/08	8:34	Flowing	N	Clear	Clear	No		No		N	S	NR	NR	NR
TUB33.95	6/13/08	8:21	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
TUB33.95	6/17/08	8:17	Flowing	N	Clear	Light Yellow/Tan	Yes	foam; minor amount natural foam	No		N	NR	M	NR	NR
TUB33.95	7/9/08	8:25	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	S	NR	NR	S
TUB33.95	7/18/08	8:32	Flowing	N	Clear	Clear									
TUB33.95	7/22/08	8:25	Flowing	N	Clear	Clear	No		No		N	NR	NR	NR	S
TUB33.95	8/15/08	8:09	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
TUB33.95	8/19/08	8:30	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		N	NR	M	NR	S
TUB33.95	9/23/08	8:50	Flowing	N	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	M
TWB0.66	5/20/08	10:36	Flowing	N	Clear	Clear	No		No		S	N	N	N	N

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
TWB0.66	6/16/08	15:16	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
TWB0.66	6/17/08	10:38	Flowing	N	Clear	Clear	Yes	Foam (natural foam)	No		N	N	N	N	N
TWB0.66	7/9/08	10:27	Flowing	N	Clear	Clear	No		No		S	NR	S	NR	S
TWB0.66	7/21/08	15:29	Flowing	N	Clear	Clear	Not Applicable - Probe Deploy Field Sheet								
TWB0.66	7/22/08	10:49	Flowing	N	Clear	Clear	No		No		S	M	NR	NR	D
TWB0.66	8/18/08	12:17	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
TWB0.66	8/19/08	10:35	Flowing	N	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
TWB0.66	9/23/08	10:30	Flowing	N	Clear	Clear	No		No		N	N	N	N	N
WA06A	5/20/08	12:11	Flowing	N	Clear	Dark Tan	No		No		N	NR	S	NR	NR
WA06A	6/17/08	12:20	Flowing	N	Clear	Light Yellow/Tan	No		No		N	S	M	NR	NR
WA06A	7/9/08	11:35	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	D	D	NR	NR
WA06A	7/22/08	12:13	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	S	M	NR	NR
WA06A	8/19/08	12:19	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Yes	Foam (natural)	No		N	NR	S	NR	S
WA06A	8/29/08	10:50	Flowing	NR	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WA06A	9/23/08	12:08	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (natural)	No		N	NR	M	NR	NR
WA09A*	6/16/08	14:25	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WA09A*	7/21/08	13:02	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WA09A*	8/18/08	14:38	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WA09A*	8/29/08	10:16	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WA12	5/20/08	11:06	Flowing	N	Clear	Light Yellow/Tan	Yes	minimal foam	No		S	NR	NR	NR	S
WA12	6/16/08	18:00	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WA12	6/17/08	10:54	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Yes	Foam	No		S	NR	D	NR	NR
WA12	7/9/08	10:57	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (likely natural)	No		D	NR	M	NR	NR
WA12	7/21/08	17:10	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WA12	7/22/08	11:00	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	Yes	Foam (may be be natural)	No		M	S	S	NR	NR
WA12	8/18/08	12:29	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
WA12	8/19/08	10:23	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	pollen/dust blankets	Yes	trash	D	U	U	U	U
WA12	9/23/08	11:07	Flowing	N	Clear	Brownish	Yes	Foam (probably natural)	No		M	S	M	NR	NR
WAWVA	5/20/08	10:07	Flowing	N	Clear	Brownish	No		No		N	U	U	U	U
WAWVA	6/17/08	10:13	Flowing	N	Clear	Light Yellow/Tan	Yes	foam; plenty of foam backed up at downed tree.	No		N	U	U	U	U
WAWVA	7/9/08	10:00	Flowing	N	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
WAWVA	7/22/08	10:20	Flowing	N	Moderately Turbid	Light Yellow/Tan	No		No		N	NR	NR	NR	S
WAWVA	8/19/08	10:28	Flowing	N	Slightly Turbid	Other (Rusty/orangish)	Yes	Foam	No		N	NR	Only Box checked	NR	M
WAWVA	9/23/08	9:58	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (from upstream dam)	No		N	NR	S	NR	S
WAX	5/20/08	11:26	Flowing	N	Clear	Light Yellow/Tan	No		No		S	U	U	U	U
WAX	6/16/08	13:15	Flowing	N	Clear	Light Yellow/Tan									
WAX	6/17/08	11:30	Flowing	N	Clear	Light Yellow/Tan	No		No		M	U	U	U	U
WAX	7/9/08	11:00	NR	N	Clear	Light Yellow/Tan	No		No		U	U	U	U	U
WAX	7/21/08	11:55	Flowing	Unobservable	Un-Observable	Un-Observable	Not Applicable - Probe Deploy Field Sheet								
WAX	7/22/08	11:36	Flowing	Musty (Basement)	Slightly Turbid	Light Yellow/Tan	Yes	foam; small amount of natural foam)	U		S	U	U	U	U
WAX	8/18/08	13:34	Flowing	N	Slightly Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								
WAX	8/19/08	11:40	Flowing	N	Clear	Light Yellow/Tan	No		No		U	U	U	U	U
WAX	8/29/08	11:47	Flowing	Unobservable	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WAX	9/23/08	11:24	Flowing	N	Clear	Dark Tan	Yes	Foam (natural)	No		U	U	U	U	U
WB0.04	9/10/08	13:53	Flowing	Musty (Basement)	Moderately Turbid	Light Yellow/Tan	Yes	Foam (natural)	No		U	U	U	U	U
WR02	5/20/08	10:25	Flowing	N	Clear	Other (rusty/orangish)	No		No		M	NR	S	NR	NR
WR02	6/17/08	10:43	Flowing	NR	Clear	Light Yellow/Tan	No		No		M	NR	M	NR	S
WR02	7/9/08	10:15	Flowing	N	Clear	Light Yellow/Tan	No		No		S	NR	S	NR	NR

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	DATE	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
WR02	7/22/08	10:51	Flowing	N	Clear	Light Yellow/Tan	No		No		M	NR	NR	NR	S
WR02	8/19/08	11:00	Flowing	N	Clear	Reddish	No		No		N	N	N	N	N
WR02	9/23/08	10:24	Flowing	Musty (Basement)	Clear	NR	No		No		S	NR	NR	NR	NR
WR22.02	5/20/08	8:45	Flowing	N	Clear	Dark Tan	No		No		U	U	U	U	U
WR22.02	6/17/08	8:45	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		S	D	NR	NR	NR
WR22.02	7/9/08	8:49	Flowing	N	Clear	Light Yellow/Tan	Yes	pollen/dust blankets, other (leaves)	No		U	U	U	U	U
WR22.02	7/22/08	8:39	Flowing	N	Slightly Turbid	Light Yellow/Tan	No		No		M	U	U	U	U
WR22.02	8/19/08	8:42	Flowing	N	Slightly Turbid	Light Yellow/Tan	Yes	pollen/dust blankets	No		U	U	U	U	U
WR22.02	9/23/08	8:55	Flowing	N	Clear	Light Yellow/Tan	No		Yes	Trash (slight amount on access trail, bike in water)	S	NR	NR	NR	NR
WR23.93	8/29/08	13:31	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WR25.30	8/29/08	14:24	Flowing	N	NR	NR	Not Applicable - Probe Deploy Field Sheet								
WR34	5/20/08	11:56	Flowing	N	Clear	Dark Tan	No		No		N	N	N	N	N
WR34	6/16/08	13:51	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WR34	6/17/08	12:01	Flowing	N	Clear	Dark Tan	No		No		N	NR	NR	NR	NR
WR34	7/9/08	11:25	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	NR
WR34	7/21/08	12:19	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WR34	7/22/08	12:03	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	N	N	N	N
WR34	8/18/08	13:59	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WR34	8/19/08	12:00	Flowing	Musty (Basement)	Clear	Light Yellow/Tan	No		No		N	NR	S	NR	NR
WR34	8/29/08	11:19	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WR34	9/23/08	11:50	Flowing	N	Clear	NR	Yes	Foam (natural)	Yes	other (metal pipes)	N	U	U	U	U
WR39.16	6/13/08	12:08	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								
WR39.16	7/18/08	11:51	Flowing	N	Clear	Reddish	Not Applicable - Probe Deploy Field Sheet								
WR39.16	8/15/08	11:58	Flowing	N	Slightly Turbid	Reddish	Not Applicable - Probe Deploy Field Sheet								
WR39.16	8/29/08	12:10	Flowing	N	Clear	Light Yellow/Tan	Not Applicable - Probe Deploy Field Sheet								

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

											Areal Density				
Station ID	**DATE**	**Time**	**Flow Status**	**Odor**	**Water Clarity**	**Color**	**Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposit Comments**	**Aquatic Plants**	**Filamentous Algae**	**Film Algae**	**Loose Floc**	**Moss**
WR39.16	9/23/08	11:09	Flowing	N	Clear	Dark Tan	Yes	Foam (natural)	No		S	NR	NR	S	S

Sampling Issues and Coordinator Notes

Some field sheet observations are qualitative and subject to the interpretation of individual sampling crew members; particularly observations of light trash and foam noted on many field sheets. These observations, though accurate, are literal interpretations of the fieldsheet categories and are not indicative of levels of objectionable deposits or foam severe enough to impair the Aesthetics Uses for the majority these waters.

It should be noted that there are combined sewer overflows (CSOs) in the lower sections of the Chicopee River Watershed and any bacteria data collected during wet-weather events may be influenced by CSO discharges.

Given the high flows during the month of September it is unknown how representative these probe deployments are of normal conditions. The water quality probes retrieved from the Quaboag River on September 10th were completely surrounded or submerged due to both flood waters and the weight of *Cabomba* plants on the probes' float. Shorter probe deployments in the river downstream from Quaboag Pond and upstream from Wickaboag Pond are best.

Survey Conditions

Precipitation data collected during the survey period in 2008 were downloaded from the National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center (NCDC) for both the Worcester Airport and the Springfield /Chicopee airport weather stations (NOAA 2013a). The precipitation totals on the water quality survey dates and the five days prior to the survey dates were extracted from the retrieved records. In addition, the Worcester Airport weather station's monthly precipitation totals for 2008 and the monthly average of total precipitation for the period 1981 to 2010 was downloaded to determine if precipitation amounts in 2008 were above or below normal (NOAA 2013b) (Table 3).

Stream discharge data from the East Branch Swift River near Hardwick (1174500), the Ware River near Barre (1172500), the Ware River at Gibbs Crossing (1173500), the Sevenmile River near Spencer (1175670), the Quaboag River at West Brimfield (1176000), and the Chicopee River at Indian Orchard (1177000) were downloaded from the United States Geological Survey (USGS)to Table 4 (USGS 2013a). In addition, the 7Q10 for each gage station was calculated using the USGS StreamStats (Table 4; USGS 2013b). The entire period of record for each USGS gage station was downloaded and the average daily discharge values on the water quality survey dates and the five days prior to the survey dates were extracted from these records. The percent of time that the average daily discharge on the extracted dates were equaled or exceeded during the entire period of record for the gage was calculated to put the discharge value into historical perspective. The precipitation and discharge data are summarized and presented in Table 5.

Table 3. Total monthly precipitation in 2008 and monthly average precipitation for 1981 to 2010 at the Worcester Airport weather station (NOAA 2013a, NOAA 2013b).

Month	Worcester Airport 2008 Total Monthly Precipitation (in)	Worcester Airport Monthly Average Precipitation (1981-2010) (in.)	Worcester Airport 2008 Precipitation as Percent of Monthly Average Precipitation (1981-2010)
January	2.45	3.49	70
February	9.69	3.23	300
March	5.62	4.21	133
April	4.24	4.11	103
May	2.45	4.19	58
June	5.56	4.19	133
July	7.96	4.23	188
August	3.53	3.71	95
September	9.22	3.93	235
October	2.62	4.68	56
November	4.25	4.28	99
December	5.64	3.82	148

Samples collected from stations on water quality survey dates were determined to be representative of wet-weather conditions or dry-weather conditions (Table 6). It is the practice of the DWM to define a "wet-weather" sample as one that was collected at a location that received at least 0.5 inches of rainfall within the 72-hours antecedent to sample collection as evidenced by a corresponding increase in streamflow condition.

The rainfall amounts at the Worcester weather station that occurred on July 9th occurred after sampling (in the evening) and streamflow in the watershed at select USGS gages was decreasing. Despite the recorded rainfall totals for the day of sampling, all samples collected on July 9th are considered dry weather samples. The majority of the rainfall recorded at the Worcester weather station on July 22nd occurred in the evening after sampling. Given the rainfall amounts at both weather stations before sampling on July 22nd and a general pattern of increasing flows before sampling, all stations on this date are considered to be "wet-weather".

Table 4. USGS gage stations used to estimate the hydrological conditions in the Chicopee River Watershed during the 2008 DWM water quality surveys and the estimated 7Q10 flows for each gage. (USGS 2013a, USGS 2013b).

Station Name	Latitude, Longitude	Period of Record	7Q10 (cfs)	USGS Remarks
USGS 01174500 East Branch Swift River Near Hardwick	42.3934236, -72.2386925	January 1937 to present	0.6	
USGS 01172500 Ware River Near Barre	42.42509028, -72.0245211	July 1946 to present	1.3	Prior to August 1955, slight regulation at low flow at times by Long Pond. Flow regulated by Barre Falls Reservoir since 1958. Diversion at times since 1955 from 6.5 mi^2 upstream of station for municipal supply of Fitchburg
USGS 01173500 Ware River At Gibbs Crossing	42.23620389, -72.2725806	September 1949 to present	22	Diversion at times: Since March 1931 from 96.3 mi2 for supply of Boston metropolitan district and since 1955 from 6.5 mi^2 for municipal supply of Fitchburg. Flow regulated by mills upstream and by Barre Falls Reservoir (see station 01172500) since 1958.
USGS 01175670 Sevenmile River Near Spencer	42.26509194, -72.0047972	October 1960 to present	0.23	Occasional regulation by ponds upstream since 1971
USGS 01176000 Quaboag River At West Brimfield	42.18231556, -72.2636911	August 1912 to present	15.8	Slight diurnal fluctuation at low flow caused by mill upstream prior to 1956; regulation much greater prior to 1938. High flow slightly affected by retarding reservoirs since 1965.
USGS 01177000 Chicopee River At Indian Orchard	42.16064917, -72.5139756	August 1928 to present	128	Regulated by Quabbin Reservoir since 1939. Diversion to and from Quabbin Reservoir for water supplies of metropolitan Boston and other cities. Water-quality records 1953,1957.

Table 5. Precipitation and discharge**-**The precipitation totals (inches) and daily average discharge (cubic feet per second) with percent exceeded on the water quality survey dates and the five days prior to the survey dates. Percent exceeded is percent of time that the discharge was equaled or exceeded during the period of record for the stream gage. Shaded dates indicate the deployment of multi-probes and large bold dates indicate collection of water samples (USGS 2013a) (NOAA 2013b).

	Precipitation(in)		**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**
Date	Worcester Airport	Springfield/ Chicopee Airport	USGS 01174500 East Branch Swift River near Hardwick	USGS 01172500 Ware River near Barre	USGS 01173500 Ware River at Gibbs Crossing	USGS 01175670 Sevenmile River near Spencer	USGS 01176000 Quaboag River at West Brimfield	USGS 01177000 Chicopee River at Indian Orchard
5/15/2008	T	0.03	49 (50%)	45 (60%)	192 (56%)	8.1 (57%)	222 (43%)	1090 (32%)
5/16/2008	0.5	0.61	50 (49%)	43 (62%)	181 (58%)	9 (54%)	215 (44%)	986 (36%)
5/17/2008	0.34	0.3	95 (27%)	79 (42%)	359 (30%)	21 (25%)	278 (35%)	1390 (23%)
5/18/2008	0.01	0	112 (22%)	90 (38%)	337 (33%)	27 (19%)	266 (37%)	1460 (21%)
5/19/2008	T	T	90 (29%)	81 (42%)	310 (36%)	28 (18%)	254 (38%)	1310 (25%)
5/20/2008	T	T	75 (35%)	80 (42%)	264 (44%)	23 (22%)	243 (40%)	1190 (29%)
6/8/2008	T	T	54 (47%)	36 (66%)	199 (55%)	5.8 (66%)	140 (59%)	754 (47%)
6/9/2008	T	0.01	45 (53%)	29 (71%)	160 (62%)	3.8 (75%)	125 (62%)	758 (47%)
6/10/2008	0.32	0.13	36 (59%)	26 (73%)	132 (68%)	3 (79%)	115 (65%)	663 (52%)
6/11/2008	T	0	39 (57%)	30 (70%)	99 (75%)	4 (74%)	110 (67%)	653 (53%)
6/12/2008	0	0	33 (62%)	23 (75%)	128 (68%)	2.2 (84%)	98 (70%)	471 (66%)
6/13/2008	0	0	26 (69%)	18 (79%)	91 (77%)	1.9 (86%)	88 (73%)	523 (62%)
6/14/2008	T	0.13	25 (70%)	16 (81%)	76 (81%)	2.5 (82%)	81 (75%)	452 (67%)
6/15/2008	0.13	0	24 (71%)	15 (82%)	136 (67%)	3.3 (77%)	82 (75%)	466 (66%)
6/16/2008	0.49	0.81	24 (71%)	17 (80%)	85 (79%)	3.2 (78%)	84 (74%)	544 (60%)
6/17/2008	0.16	0.01	40 (56%)	27 (72%)	122 (70%)	5.6 (67%)	117 (65%)	664 (52%)
6/18/2008	0.06	0.16	39 (57%)	25 (74%)	137 (67%)	3.4 (77%)	90 (72%)	697 (50%)
6/19/2008	0	0.01	34 (61%)	21 (76%)	126 (69%)	2.9 (80%)	80 (76%)	588 (57%)
7/4/2008	0.23	0.03	38 (58%)	46 (60%)	159 (62%)	4.3 (72%)	133 (61%)	633 (54%)
7/5/2008	0.03	0.61	43 (54%)	43 (62%)	182 (57%)	3.8 (75%)	130 (61%)	614 (55%)
7/6/2008	0	0	41 (55%)	39 (64%)	177 (59%)	3.1 (78%)	124 (63%)	669 (52%)

Table 5. Precipitation and discharge (continued)- The precipitation totals (inches) and daily average discharge (cubic feet per second) with percent exceeded on the water quality survey dates and the five days prior to the survey dates. Percent exceeded is percent of time that the discharge was equaled or exceeded during the period of record for the stream gage. Shaded dates indicate the deployment of multi-probes and large bold dates indicate collection of water samples (USGS 2013a) (NOAA 2013b).

	Precipitation(in)		**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**
Date	Worcester Airport	Springfield/ Chicopee Airport	USGS 01174500 East Branch Swift River near Hardwick	USGS 01172500 Ware River near Barre	USGS 01173500 Ware River at Gibbs Crossing	USGS 01175670 Sevenmile River near Spencer	USGS 01176000 Quaboag River at West Brimfield	USGS 01177000 Chicopee River at Indian Orchard
7/7/2008	0	0	35 (60%)	33 (68%)	148 (64%)	2.3 (83%)	116 (65%)	562 (59%)
7/8/2008	0	0	29 (66%)	28 (71%)	144 (65%)	1.8 (86%)	107 (68%)	517 (62%)
7/9/2008	0.72	T	28 (67%)	23 (75%)	143 (65%)	1.5 (88%)	101 (69%)	523 (62%)
7/13/2008	0	0	19 (76%)	18 (79%)	77 (81%)	1.4 (88%)	75 (77%)	365 (75%)
7/14/2008	T	0.24	19 (76%)	13 (84%)	117 (71%)	1.2 (90%)	70 (79%)	362 (75%)
7/15/2008	0	0.01	18 (77%)	10 (87%)	85 (79%)	0.94 (92%)	66 (80%)	399 (72%)
7/16/2008	0	0	16 (79%)	9.4 (88%)	57 (88%)	0.84 (93%)	61 (82%)	458 (67%)
7/17/2008	0	0	14 (82%)	15 (82%)	62 (86%)	0.76 (94%)	57 (84%)	368 (75%)
7/18/2008	0.04	T	13 (83%)	9.6 (87%)	63 (86%)	0.61 (95%)	54 (85%)	340 (78%)
7/19/2008	0.26	T	16 (79%)	7.5 (91%)	64 (85%)	0.78 (94%)	52 (86%)	311 (81%)
7/20/2008	0.36	0.26	22 (73%)	6.8 (92%)	67 (84%)	1.4 (88%)	52 (86%)	299 (82%)
7/21/2008	0.41	0.01	37 (58%)	14 (83%)	95 (76%)	3.1 (78%)	57 (84%)	295 (83%)
7/22/2008	0.95	2.32	63 (41%)	16 (81%)	104 (74%)	5.8 (66%)	70 (79%)	313 (80%)
7/23/2008	1.11	1.02	299 (6%)	57 (53%)	431 (23%)	18 (31%)	140 (59%)	1190 (29%)
8/10/2008	0.16	0.18	75 (35%)	155 (21%)	485 (20%)	9 (54%)	443 (19%)	1560 (19%)
8/11/2008	0.11	0.59	78 (34%)	125 (28%)	447 (22%)	11 (49%)	448 (19%)	1650 (17%)
8/12/2008	0.13	0.04	72 (37%)	127 (27%)	449 (22%)	11 (49%)	422 (21%)	1560 (19%)
8/13/2008	0	0	74 (36%)	109 (32%)	412 (25%)	8.9 (54%)	392 (23%)	1500 (20%)
8/14/2008	0.1	0.04	63 (41%)	90 (38%)	337 (33%)	6.6 (63%)	366 (25%)	1270 (26%)
8/15/2008	0.68	0.09	53 (47%)	91 (38%)	286 (40%)	7.6 (59%)	376 (25%)	1230 (27%)
8/16/2008	0	0.01	53 (47%)	85 (40%)	355 (31%)	11 (49%)	367 (25%)	1260 (26%)
8/17/2008	0	0	47 (51%)	69 (47%)	307 (37%)	7.3 (60%)	348 (27%)	1260 (26%)
8/18/2008	0	0.05	40 (56%)	52 (56%)	221 (50%)	5.5 (68%)	317 (30%)	1090 (32%)
8/19/2008	0.05	0.07	37 (58%)	47 (59%)	207 (53%)	4.6 (71%)	293 (33%)	972 (37%)

Table 5. Precipitation and discharge (continued)- The precipitation totals (inches) and daily average discharge (cubic feet per second) with percent exceeded on the water quality survey dates and the five days prior to the survey dates. Percent exceeded is percent of time that the discharge was equaled or exceeded during the period of record for the stream gage. Shaded dates indicate the deployment of multi-probes and large bold dates indicate collection of water samples (USGS 2013a) (NOAA 2013b).

	Precipitation(in)		**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**
Date	Worcester Airport	Springfield/ Chicopee Airport	USGS 01174500 East Branch Swift River near Hardwick	USGS 01172500 Ware River near Barre	USGS 01173500 Ware River at Gibbs Crossing	USGS 01175670 Sevenmile River near Spencer	USGS 01176000 Quaboag River at West Brimfield	USGS 01177000 Chicopee River at Indian Orchard
8/20/2008	0	0	33 (62%)	41 (63%)	210 (53%)	3.8 (75%)	264 (37%)	813 (44%)
8/24/2008	0	0	23 (72%)	27 (72%)	113 (72%)	22 (24%)	188 (49%)	557 (59%)
8/25/2008	T	T	22 (73%)	25 (74%)	145 (65%)	12 (46%)	174 (51%)	552 (60%)
8/26/2008	0	0	20 (75%)	22 (76%)	123 (69%)	8.2 (57%)	157 (55%)	593 (57%)
8/27/2008	0	0	18 (77%)	20 (77%)	133 (67%)	6 (66%)	142 (58%)	480 (65%)
8/28/2008	0	0	17 (78%)	16 (81%)	122 (70%)	4.5 (72%)	131 (61%)	469 (66%)
8/29/2008	T	0.02	15 (80%)	15 (82%)	106 (73%)	3 (79%)	120 (64%)	415 (71%)
8/31/2008	0	0	19 (76%)	23 (75%)	109 (73%)	2.4 (83%)	107 (68%)	441 (68%)
9/1/2008	0	0.01	16 (79%)	15 (82%)	102 (74%)	1.9 (86%)	97 (70%)	431 (69%)
9/2/2008	0	T	15 (80%)	12 (85%)	96 (76%)	1.5 (88%)	91 (72%)	377 (74%)
9/3/2008	0	0.02	14 (82%)	11 (86%)	96 (76%)	1 (91%)	87 (73%)	381 (74%)
9/4/2008	0	0	13 (83%)	11 (86%)	91 (77%)	1.1 (90%)	82 (75%)	380 (74%)
9/5/2008	0	0	12 (84%)	9.8 (87%)	92 (77%)	0.95 (92%)	78 (76%)	295 (83%)
9/6/2008	4.79	4.52	24 (71%)	9.5 (88%)	150 (64%)	6.5 (63%)	126 (62%)	524 (62%)
9/7/2008	0.12	0.04	491 (4%)	35 (67%)	2060 (4%)	77 (5%)	942 (5%)	5750 (4%)
9/8/2008	0	0	330 (5%)	153 (22%)	1080 (6%)	35 (13%)	660 (10%)	3390 (5%)
9/9/2008	0.68	0.72	200 (9%)	257 (10%)	876 (8%)	31 (15%)	692 (9%)	2370 (9%)
9/10/2008	0	0	223 (8%)	246 (11%)	1140 (6%)	28 (18%)	710 (8%)	2760 (7%)
9/11/2008	0	0	145 (15%)	280 (9%)	820 (9%)	19 (29%)	655 (10%)	2230 (10%)
9/17/2008	0	0.01	78 (34%)	107 (32%)	422 (24%)	20 (27%)	507 (15%)	1520 (19%)
9/18/2008	0	0	60 (43%)	77 (44%)	338 (33%)	21 (25%)	461 (18%)	1290 (25%)
9/19/2008	0	0	48 (51%)	57 (53%)	266 (43%)	13 (43%)	417 (21%)	1180 (29%)
9/20/2008	0	0	43 (54%)	44 (61%)	232 (49%)	9.8 (52%)	384 (24%)	1030 (34%)
9/21/2008	0	0	40 (56%)	35 (67%)	203 (54%)	8.5 (56%)	354 (27%)	965 (37%)

Table 5. Precipitation and discharge (continued)- The precipitation totals (inches) and daily average discharge (cubic feet per second) with percent exceeded on the water quality survey dates and the five days prior to the survey dates. Percent exceeded is percent of time that the discharge was equaled or exceeded during the period of record for the stream gage. Shaded dates indicate the deployment of multi-probes and large bold dates indicate collection of water samples (USGS 2013a) (NOAA 2013b).

	Precipitation(in)		**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**	**Discharge (cfs) (% exceeded)**
Date	Worcester Airport	Springfield/ Chicopee Airport	USGS 01174500 East Branch Swift River near Hardwick	USGS 01172500 Ware River near Barre	USGS 01173500 Ware River at Gibbs Crossing	USGS 01175670 Sevenmile River near Spencer	USGS 01176000 Quaboag River at West Brimfield	USGS 01177000 Chicopee River at Indian Orchard
9/22/2008	0	0	37 (58%)	30 (70%)	200 (54%)	6.7 (63%)	320 (30%)	888 (40%)
9/23/2008	0	0.01	35 (60%)	29 (71%)	195 (55%)	5.4 (68%)	292 (33%)	887 (41%)
9/24/2008	0	0	33 (62%)	26 (73%)	141 (66%)	4.8 (70%)	265 (37%)	752 (47%)

Table 6: 2008 Chicopee River Watershed water quality sampling- wet-weather sample determination

Survey Date	5 Days Prior	4 Days Prior	3 Days Prior	2 Days Prior	1 Day Prior	Sample Date	72 hour sum*	Water Quality Station
5/20/2008	T	0.50	0.34	0.01	T	T	0.01	**No** samples considered to be "wet-weather" samples
6/17/2008	0.00	0.00	T	0.13	0.49	0.16	0.78	**All** samples considered to be "wet-weather" samples
6/19/2008	T	0.13	0.49	0.16	0.06	0.00	0.22	**No** samples considered to be "wet-weather" samples
7/9/2008	0.23	0.03	0.00	0.00	0.00	0.72	0.72	**No** samples considered to be "wet-weather" samples
7/22/2008	0.00	0.04	0.26	0.36	0.41	0.95	1.72	**All** samples considered to be "wet-weather" samples
8/19/2018	0.10	0.68	0.00	0.00	0.00	0.05	0.05	**No** samples considered to be "wet-weather" samples
9/11/2008	4.79	0.12	0.00	0.68	0.00	0.00	0.68	**All** samples may be considered "wet-weather" samples
9/23/2008	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**No** samples considered to be "wet-weather" samples

" T " = trace amount of precipitation measured, * includes the day of sampling

Water Quality Data

All MassDEP DWM water quality data are managed and maintained in the Water Quality Data Access Database. Tables 7, 8, 9, 10, 11 and 12 below are 2008 data for the Chicopee River Watershed. Table 8 presents the geometric mean of the *E. coli* samples. The procedures used to accept, accept with qualification or censor data are based on the DWM Standard Operation Procedure (SOP) for data validation and usability (MassDEP 2012a), and are in addition to separate quality assurance activities and laboratory validation steps undertaken by the WES. Data symbols and qualifiers are listed in Appendix 2.

Table 7. 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
BOB0.25	W1855	5/20/08	12:15	36-0785		Flowing	Ammonia-N	mg/L	<0.02	
BOB0.25	W1855	5/20/08	12:15	36-0785		Flowing	*E. coli*	CFU/100mL	4	
BOB0.25	W1855	5/20/08	12:15	36-0785		Flowing	Total Nitrogen	mg/L	0.17	
BOB0.25	W1855	5/20/08	12:15	36-0785		Flowing	Total Phosphorus	mg/L	0.012	
BOB0.25	W1855	5/20/08	12:15	36-0785		Flowing	True Color	PCU	18	
BOB0.25	W1855	5/20/08	12:15	36-0785		Flowing	Turbidity	NTU	1	
BOB0.25	W1855	6/17/08	11:50	36-0960		Flowing	Ammonia-N	mg/L	<0.02	
BOB0.25	W1855	6/17/08	11:50	36-0960		Flowing	*E. coli*	CFU/100mL	390	
BOB0.25	W1855	6/17/08	11:50	36-0960		Flowing	Total Nitrogen	mg/L	0.33	
BOB0.25	W1855	6/17/08	11:50	36-0960		Flowing	Total Phosphorus	mg/L	0.025	
BOB0.25	W1855	6/17/08	11:50	36-0960		Flowing	True Color	PCU	29	
BOB0.25	W1855	6/17/08	11:50	36-0960		Flowing	Turbidity	NTU	2.2	
BOB0.25	W1855	7/9/08	11:57	36-1049		Flowing	*E. coli*	CFU/100mL	60	
BOB0.25	W1855	7/22/08	12:12	36-1215		Flowing	Ammonia-N	mg/L	<0.02	
BOB0.25	W1855	7/22/08	12:12	36-1215		Flowing	*E. coli*	CFU/100mL	60	
BOB0.25	W1855	7/22/08	12:12	36-1215		Flowing	Hardness	mg/L	20	
BOB0.25	W1855	7/22/08	12:12	36-1215		Flowing	Total Nitrogen	mg/L	0.26	
BOB0.25	W1855	7/22/08	12:12	36-1215		Flowing	Total Phosphorus	mg/L	0.019	
BOB0.25	W1855	7/22/08	12:12	36-1215		Flowing	True Color	PCU	18	
BOB0.25	W1855	7/22/08	12:12	36-1215		Flowing	Turbidity	NTU	1.2	
BOB0.25	W1855	8/19/08	11:25	36-1388		Flowing	Ammonia-N	mg/L	<0.02	
BOB0.25	W1855	8/19/08	11:25	36-1388		Flowing	*E. coli*	CFU/100mL	690	
BOB0.25	W1855	8/19/08	11:25	36-1388		Flowing	Total Nitrogen	mg/L	0.31	
BOB0.25	W1855	8/19/08	11:25	36-1388		Flowing	Total Phosphorus	mg/L	0.015	
BOB0.25	W1855	8/19/08	11:25	36-1388		Flowing	True Color	PCU	31	
BOB0.25	W1855	8/19/08	11:25	36-1388		Flowing	Turbidity	NTU	2.2	
BOB0.25	W1855	9/23/08	12:05	36-1510		Flowing	Ammonia-N	mg/L	<0.02	
BOB0.25	W1855	9/23/08	12:05	36-1510		Flowing	*E. coli*	CFU/100mL	20	
BOB0.25	W1855	9/23/08	12:05	36-1510		Flowing	Total Nitrogen	mg/L	0.12	
BOB0.25	W1855	9/23/08	12:05	36-1510		Flowing	Total Phosphorus	mg/L	0.01	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
BOB0.25	W1855	9/23/08	12:05	36-1510		Flowing	True Color	PCU	<15	
BOB0.25	W1855	9/23/08	12:05	36-1510		Flowing	Turbidity	NTU	<0.5	
BSR1.39	W1849	5/20/08	9:24	36-0747		Flowing	Ammonia-N	mg/L	<0.02	
BSR1.39	W1849	5/20/08	9:24	36-0747		Flowing	*E. coli*	CFU/100mL	12	
BSR1.39	W1849	5/20/08	9:24	36-0747		Flowing	Total Nitrogen	mg/L	0.2	
BSR1.39	W1849	5/20/08	9:24	36-0747		Flowing	Total Phosphorus	mg/L	0.009	
BSR1.39	W1849	5/20/08	9:24	36-0747		Flowing	True Color	PCU	37	
BSR1.39	W1849	5/20/08	9:24	36-0747		Flowing	Turbidity	NTU	1.3	
BSR1.39	W1849	6/17/08	9:24	36-0922		Flowing	Ammonia-N	mg/L	<0.02	
BSR1.39	W1849	6/17/08	9:24	36-0922		Flowing	*E. coli*	CFU/100mL	130	h
BSR1.39	W1849	6/17/08	9:24	36-0922		Flowing	Total Nitrogen	mg/L	0.35	
BSR1.39	W1849	6/17/08	9:24	36-0922		Flowing	Total Phosphorus	mg/L	0.019	
BSR1.39	W1849	6/17/08	9:24	36-0922		Flowing	True Color	PCU	57	
BSR1.39	W1849	6/17/08	9:24	36-0922		Flowing	Turbidity	NTU	2.2	
BSR1.39	W1849	7/9/08	9:25	36-1011		Flowing	*E. coli*	CFU/100mL	50	
BSR1.39	W1849	7/22/08	9:27	36-1177		Flowing	Ammonia-N	mg/L	<0.02	
BSR1.39	W1849	7/22/08	9:27	36-1177		Flowing	*E. coli*	CFU/100mL	60	
BSR1.39	W1849	7/22/08	9:27	36-1177		Flowing	Total Nitrogen	mg/L	0.41	
BSR1.39	W1849	7/22/08	9:27	36-1177		Flowing	Total Phosphorus	mg/L	0.02	
BSR1.39	W1849	7/22/08	9:27	36-1177		Flowing	True Color	PCU	64	
BSR1.39	W1849	7/22/08	9:27	36-1177		Flowing	Turbidity	NTU	2.4	
BSR1.39	W1849	8/19/08	9:45	36-1350		Flowing	Ammonia-N	mg/L	<0.02	
BSR1.39	W1849	8/19/08	9:45	36-1350		Flowing	*E. coli*	CFU/100mL	150	
BSR1.39	W1849	8/19/08	9:45	36-1350		Flowing	Total Nitrogen	mg/L	0.3	
BSR1.39	W1849	8/19/08	9:45	36-1350		Flowing	Total Phosphorus	mg/L	0.012	
BSR1.39	W1849	8/19/08	9:45	36-1350		Flowing	True Color	PCU	62	
BSR1.39	W1849	8/19/08	9:45	36-1350		Flowing	Turbidity	NTU	1.2	
BSR1.39	W1849	9/23/08	9:21	36-1541		Flowing	Ammonia-N	mg/L	<0.02	
BSR1.39	W1849	9/23/08	9:21	36-1541		Flowing	*E. coli*	CFU/100mL	20	
BSR1.39	W1849	9/23/08	9:21	36-1541		Flowing	Total Nitrogen	mg/L	0.23	
BSR1.39	W1849	9/23/08	9:21	36-1541		Flowing	Total Phosphorus	mg/L	0.011	
BSR1.39	W1849	9/23/08	9:21	36-1541		Flowing	True Color	PCU	57	
BSR1.39	W1849	9/23/08	9:21	36-1541		Flowing	Turbidity	NTU	1.6	
CAB0.11	W1857	5/20/08	10:41	36-0767		Flowing	Ammonia-N	mg/L	<0.02	
CAB0.11	W1857	5/20/08	10:41	36-0767		Flowing	*E. coli*	CFU/100mL	30	
CAB0.11	W1857	5/20/08	10:41	36-0767		Flowing	Total Nitrogen	mg/L	0.38	
CAB0.11	W1857	5/20/08	10:41	36-0767		Flowing	Total Phosphorus	mg/L	0.019	
CAB0.11	W1857	5/20/08	10:41	36-0767		Flowing	True Color	PCU	25	
CAB0.11	W1857	5/20/08	10:41	36-0767		Flowing	Turbidity	NTU	1.2	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
CAB0.11	W1857	6/17/08	10:49	36-0942		Flowing	*E. coli*	CFU/100mL	400	
CAB0.11	W1857	6/17/08	10:49	36-0942		Flowing	True Color	PCU	75	
CAB0.11	W1857	6/17/08	10:49	36-0942		Flowing	Turbidity	NTU	2.4	
CAB0.11	W1857	7/9/08	10:34	36-1031		Flowing	*E. coli*	CFU/100mL	20	
CAB0.11	W1857	7/22/08	11:00	36-1197		Flowing	Ammonia-N	mg/L	0.02	
CAB0.11	W1857	7/22/08	11:00	36-1197		Flowing	*E. coli*	CFU/100mL	40	
CAB0.11	W1857	7/22/08	11:00	36-1197		Flowing	Total Nitrogen	mg/L	0.58	
CAB0.11	W1857	7/22/08	11:00	36-1197		Flowing	Total Phosphorus	mg/L	0.024	
CAB0.11	W1857	7/22/08	11:00	36-1197		Flowing	True Color	PCU	26	
CAB0.11	W1857	7/22/08	11:00	36-1197		Flowing	Turbidity	NTU	1.5	
CAB0.11	W1857	8/19/08	10:45	36-1370		Flowing	Ammonia-N	mg/L	<0.02	
CAB0.11	W1857	8/19/08	10:45	36-1370		Flowing	*E. coli*	CFU/100mL	150	
CAB0.11	W1857	8/19/08	10:45	36-1370		Flowing	Total Nitrogen	mg/L	0.51	
CAB0.11	W1857	8/19/08	10:45	36-1370		Flowing	Total Phosphorus	mg/L	0.034	
CAB0.11	W1857	8/19/08	10:45	36-1370		Flowing	True Color	PCU	36	
CAB0.11	W1857	8/19/08	10:45	36-1370		Flowing	Turbidity	NTU	2.6	
CAB0.11	W1857	9/23/08	10:35	36-1491		Flowing	Ammonia-N	mg/L	<0.02	
CAB0.11	W1857	9/23/08	10:35	36-1491		Flowing	*E. coli*	CFU/100mL	60	
CAB0.11	W1857	9/23/08	10:35	36-1491		Flowing	Total Nitrogen	mg/L	0.41	
CAB0.11	W1857	9/23/08	10:35	36-1491		Flowing	Total Phosphorus	mg/L	0.027	
CAB0.11	W1857	9/23/08	10:35	36-1491		Flowing	True Color	PCU	27	
CAB0.11	W1857	9/23/08	10:35	36-1491		Flowing	Turbidity	NTU	1.8	
CH01	W1033	5/20/08	10:10	36-0765		Flowing	Ammonia-N	mg/L	0.05	
CH01	W1033	5/20/08	10:10	36-0765		Flowing	*E. coli*	CFU/100mL	58	
CH01	W1033	5/20/08	10:10	36-0765		Flowing	Total Nitrogen	mg/L	0.44	
CH01	W1033	5/20/08	10:10	36-0765		Flowing	Total Phosphorus	mg/L	0.029	
CH01	W1033	5/20/08	10:10	36-0765		Flowing	True Color	PCU	23	
CH01	W1033	5/20/08	10:10	36-0765		Flowing	Turbidity	NTU	2.6	
CH01	W1033	6/17/08	10:14	36-0940		Flowing	Ammonia-N	mg/L	0.07	
CH01	W1033	6/17/08	10:14	36-0940		Flowing	*E. coli*	CFU/100mL	>200	
CH01	W1033	6/17/08	10:14	36-0940		Flowing	Total Nitrogen	mg/L	0.74	
CH01	W1033	6/17/08	10:14	36-0940		Flowing	Total Phosphorus	mg/L	0.07	
CH01	W1033	6/17/08	10:14	36-0940		Flowing	True Color	PCU	44	
CH01	W1033	6/17/08	10:14	36-0940		Flowing	Turbidity	NTU	9.9	
CH01	W1033	7/9/08	10:05	36-1029		Flowing	*E. coli*	CFU/100mL	180	
CH01	W1033	7/22/08	10:23	36-1195		Flowing	Ammonia-N	mg/L	0.02	
CH01	W1033	7/22/08	10:23	36-1195		Flowing	*E. coli*	CFU/100mL	210	
CH01	W1033	7/22/08	10:23	36-1195		Flowing	Total Nitrogen	mg/L	0.6	
CH01	W1033	7/22/08	10:23	36-1195		Flowing	Total Phosphorus	mg/L	0.031	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
CH01	W1033	7/22/08	10:23	36-1195		Flowing	True Color	PCU	29	
CH01	W1033	7/22/08	10:23	36-1195		Flowing	Turbidity	NTU	2.1	
CH01	W1033	8/19/08	10:20	36-1368		Flowing	Ammonia-N	mg/L	0.02	
CH01	W1033	8/19/08	10:20	36-1368		Flowing	*E. coli*	CFU/100mL	420	
CH01	W1033	8/19/08	10:20	36-1368		Flowing	Hardness	mg/L	23	
CH01	W1033	8/19/08	10:20	36-1368		Flowing	Total Nitrogen	mg/L	0.72	
CH01	W1033	8/19/08	10:20	36-1368		Flowing	Total Phosphorus	mg/L	0.062	
CH01	W1033	8/19/08	10:20	36-1368		Flowing	True Color	PCU	58	
CH01	W1033	8/19/08	10:20	36-1368		Flowing	Turbidity	NTU	4.1	
CH01	W1033	9/23/08	10:05	36-1489		Flowing	Ammonia-N	mg/L	0.02	
CH01	W1033	9/23/08	10:05	36-1489		Flowing	*E. coli*	CFU/100mL	900	
CH01	W1033	9/23/08	10:05	36-1489		Flowing	Total Nitrogen	mg/L	0.52	
CH01	W1033	9/23/08	10:05	36-1489		Flowing	Total Phosphorus	mg/L	0.037	
CH01	W1033	9/23/08	10:05	36-1489		Flowing	True Color	PCU	45	
CH01	W1033	9/23/08	10:05	36-1489		Flowing	Turbidity	NTU	3.2	
CH02B	W1032	5/20/08	11:00	36-0768		Flowing	Ammonia-N	mg/L	0.06	
CH02B	W1032	5/20/08	11:00	36-0768		Flowing	*E. coli*	CFU/100mL	40	
CH02B	W1032	5/20/08	11:00	36-0768		Flowing	Total Nitrogen	mg/L	0.42	
CH02B	W1032	5/20/08	11:00	36-0768		Flowing	Total Phosphorus	mg/L	0.023	
CH02B	W1032	5/20/08	11:00	36-0768		Flowing	True Color	PCU	24	
CH02B	W1032	5/20/08	11:00	36-0768		Flowing	Turbidity	NTU	1.7	
CH02B	W1032	6/17/08	11:11	36-0943		Flowing	Ammonia-N	mg/L	0.08	
CH02B	W1032	6/17/08	11:11	36-0943		Flowing	*E. coli*	CFU/100mL	140	
CH02B	W1032	6/17/08	11:11	36-0943		Flowing	Total Nitrogen	mg/L	0.55	
CH02B	W1032	6/17/08	11:11	36-0943		Flowing	Total Phosphorus	mg/L	0.028	
CH02B	W1032	6/17/08	11:11	36-0943		Flowing	True Color	PCU	34	
CH02B	W1032	6/17/08	11:11	36-0943		Flowing	Turbidity	NTU	1.6	
CH02B	W1032	7/9/08	10:50	36-1032		Flowing	*E. coli*	CFU/100mL	60	
CH02B	W1032	7/22/08	11:17	36-1198		Flowing	Ammonia-N	mg/L	0.04	
CH02B	W1032	7/22/08	11:17	36-1198		Flowing	*E. coli*	CFU/100mL	90	
CH02B	W1032	7/22/08	11:17	36-1198		Flowing	Total Nitrogen	mg/L	0.59	
CH02B	W1032	7/22/08	11:17	36-1198		Flowing	Total Phosphorus	mg/L	0.029	
CH02B	W1032	7/22/08	11:17	36-1198		Flowing	True Color	PCU	24	
CH02B	W1032	7/22/08	11:17	36-1198		Flowing	Turbidity	NTU	1.5	
CH02B	W1032	8/19/08	11:00	36-1371		Flowing	Ammonia-N	mg/L	0.03	
CH02B	W1032	8/19/08	11:00	36-1371		Flowing	*E. coli*	CFU/100mL	180	
CH02B	W1032	8/19/08	11:00	36-1371		Flowing	Total Nitrogen	mg/L	0.52	
CH02B	W1032	8/19/08	11:00	36-1371		Flowing	Total Phosphorus	mg/L	0.03	
CH02B	W1032	8/19/08	11:00	36-1371		Flowing	True Color	PCU	51	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
CH02B	W1032	8/19/08	11:00	36-1371		Flowing	Turbidity	NTU	1.8	
CH02B	W1032	9/23/08	10:45	36-1492		Flowing	Ammonia-N	mg/L	0.03	
CH02B	W1032	9/23/08	10:45	36-1492		Flowing	*E. coli*	CFU/100mL	80	
CH02B	W1032	9/23/08	10:45	36-1492		Flowing	Total Nitrogen	mg/L	0.5	
CH02B	W1032	9/23/08	10:45	36-1492		Flowing	Total Phosphorus	mg/L	0.027	
CH02B	W1032	9/23/08	10:45	36-1492		Flowing	True Color	PCU	46	
CH02B	W1032	9/23/08	10:45	36-1492		Flowing	Turbidity	NTU	2.2	
CH06	W1031	5/20/08	11:30	36-0769		Flowing	Ammonia-N	mg/L	0.06	
CH06	W1031	5/20/08	11:30	36-0769		Flowing	*E. coli*	CFU/100mL	32	
CH06	W1031	5/20/08	11:30	36-0769		Flowing	Total Nitrogen	mg/L	0.44	
CH06	W1031	5/20/08	11:30	36-0769		Flowing	Total Phosphorus	mg/L	0.031	
CH06	W1031	5/20/08	11:30	36-0769		Flowing	True Color	PCU	21	
CH06	W1031	5/20/08	11:30	36-0769		Flowing	Turbidity	NTU	2.3	
CH06	W1031	6/17/08	11:53	36-0944		Flowing	Ammonia-N	mg/L	0.07	
CH06	W1031	6/17/08	11:53	36-0944		Flowing	*E. coli*	CFU/100mL	510	
CH06	W1031	6/17/08	11:53	36-0944		Flowing	Total Nitrogen	mg/L	0.58	
CH06	W1031	6/17/08	11:53	36-0944		Flowing	Total Phosphorus	mg/L	0.028	
CH06	W1031	6/17/08	11:53	36-0944		Flowing	True Color	PCU	26	
CH06	W1031	6/17/08	11:53	36-0944		Flowing	Turbidity	NTU	1.8	
CH06	W1031	7/9/08	11:12	36-1033		Flowing	*E. coli*	CFU/100mL	50	
CH06	W1031	7/22/08	11:54	36-1199		Flowing	Ammonia-N	mg/L	0.04	
CH06	W1031	7/22/08	11:54	36-1199		Flowing	*E. coli*	CFU/100mL	130	
CH06	W1031	7/22/08	11:54	36-1199		Flowing	Hardness	mg/L	27	
CH06	W1031	7/22/08	11:54	36-1199		Flowing	Total Nitrogen	mg/L	0.54	
CH06	W1031	7/22/08	11:54	36-1199		Flowing	Total Phosphorus	mg/L	0.024	
CH06	W1031	7/22/08	11:54	36-1199		Flowing	True Color	PCU	24	
CH06	W1031	7/22/08	11:54	36-1199		Flowing	Turbidity	NTU	2	
CH06	W1031	8/19/08	11:30	36-1372		Flowing	Ammonia-N	mg/L	0.04	
CH06	W1031	8/19/08	11:30	36-1372		Flowing	*E. coli*	CFU/100mL	90	
CH06	W1031	8/19/08	11:30	36-1372		Flowing	Total Nitrogen	mg/L	0.55	
CH06	W1031	8/19/08	11:30	36-1372		Flowing	Total Phosphorus	mg/L	0.03	
CH06	W1031	8/19/08	11:30	36-1372		Flowing	True Color	PCU	57	
CH06	W1031	8/19/08	11:30	36-1372		Flowing	Turbidity	NTU	1.8	
CH06	W1031	9/23/08	11:10	36-1493		Flowing	Ammonia-N	mg/L	0.03	
CH06	W1031	9/23/08	11:10	36-1493		Flowing	*E. coli*	CFU/100mL	40	
CH06	W1031	9/23/08	11:10	36-1493		Flowing	Total Nitrogen	mg/L	0.51	
CH06	W1031	9/23/08	11:10	36-1493		Flowing	Total Phosphorus	mg/L	0.029	
CH06	W1031	9/23/08	11:10	36-1493		Flowing	True Color	PCU	48	
CH06	W1031	9/23/08	11:10	36-1493		Flowing	Turbidity	NTU	1.9	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
CH13.43	W2005	7/9/08	12:37	36-1034		Flowing	*E. coli*	CFU/100mL	150	
CHB1.73	W1854	5/20/08	9:46	36-0764		Flowing	Ammonia-N	mg/L	0.03	
CHB1.73	W1854	5/20/08	9:46	36-0764		Flowing	*E. coli*	CFU/100mL	138	
CHB1.73	W1854	5/20/08	9:46	36-0764		Flowing	Total Nitrogen	mg/L	0.49	
CHB1.73	W1854	5/20/08	9:46	36-0764		Flowing	Total Phosphorus	mg/L	0.012	
CHB1.73	W1854	5/20/08	9:46	36-0764		Flowing	True Color	PCU	17	
CHB1.73	W1854	5/20/08	9:46	36-0764		Flowing	Turbidity	NTU	1.6	
CHB1.73	W1854	6/17/08	9:43	36-0939		Flowing	Ammonia-N	mg/L	0.03	
CHB1.73	W1854	6/17/08	9:43	36-0939		Flowing	*E. coli*	CFU/100mL	>200	h
CHB1.73	W1854	6/17/08	9:43	36-0939		Flowing	Total Nitrogen	mg/L	0.66	
CHB1.73	W1854	6/17/08	9:43	36-0939		Flowing	Total Phosphorus	mg/L	0.06	
CHB1.73	W1854	6/17/08	9:43	36-0939		Flowing	True Color	PCU	54	
CHB1.73	W1854	6/17/08	9:43	36-0939		Flowing	Turbidity	NTU	8.2	
CHB1.73	W1854	7/9/08	9:44	36-1028		Flowing	*E. coli*	CFU/100mL	280	
CHB1.73	W1854	7/22/08	9:53	36-1194		Flowing	Ammonia-N	mg/L	0.04	
CHB1.73	W1854	7/22/08	9:53	36-1194		Flowing	*E. coli*	CFU/100mL	410	
CHB1.73	W1854	7/22/08	9:53	36-1194		Flowing	Total Nitrogen	mg/L	0.6	
CHB1.73	W1854	7/22/08	9:53	36-1194		Flowing	Total Phosphorus	mg/L	0.026	
CHB1.73	W1854	7/22/08	9:53	36-1194		Flowing	True Color	PCU	27	
CHB1.73	W1854	7/22/08	9:53	36-1194		Flowing	Turbidity	NTU	3.1	
CHB1.73	W1854	8/19/08	10:00	36-1367		Flowing	Ammonia-N	mg/L	0.02	
CHB1.73	W1854	8/19/08	10:00	36-1367		Flowing	*E. coli*	CFU/100mL	350	
CHB1.73	W1854	8/19/08	10:00	36-1367		Flowing	Total Nitrogen	mg/L	0.53	
CHB1.73	W1854	8/19/08	10:00	36-1367		Flowing	Total Phosphorus	mg/L	0.017	
CHB1.73	W1854	8/19/08	10:00	36-1367		Flowing	True Color	PCU	34	
CHB1.73	W1854	8/19/08	10:00	36-1367		Flowing	Turbidity	NTU	2.7	
CHB1.73	W1854	9/23/08	9:42	36-1488		Flowing	Ammonia-N	mg/L	0.03	
CHB1.73	W1854	9/23/08	9:42	36-1488		Flowing	*E. coli*	CFU/100mL	160	
CHB1.73	W1854	9/23/08	9:42	36-1488		Flowing	Total Nitrogen	mg/L	0.52	
CHB1.73	W1854	9/23/08	9:42	36-1488		Flowing	Total Phosphorus	mg/L	0.015	
CHB1.73	W1854	9/23/08	9:42	36-1488		Flowing	True Color	PCU	20	
CHB1.73	W1854	9/23/08	9:42	36-1488		Flowing	Turbidity	NTU	2.9	
CHB2.39	W1871	5/20/08	9:36	36-0763		Flowing	Ammonia-N	mg/L	0.03	
CHB2.39	W1871	5/20/08	9:36	36-0763		Flowing	*E. coli*	CFU/100mL	82	
CHB2.39	W1871	5/20/08	9:36	36-0763		Flowing	Total Nitrogen	mg/L	0.47	
CHB2.39	W1871	5/20/08	9:36	36-0763		Flowing	Total Phosphorus	mg/L	0.012	
CHB2.39	W1871	5/20/08	9:36	36-0763		Flowing	True Color	PCU	16	
CHB2.39	W1871	5/20/08	9:36	36-0763		Flowing	Turbidity	NTU	1.5	
CHB2.39	W1871	6/17/08	9:22	36-0938		Flowing	Ammonia-N	mg/L	0.03	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
CHB2.39	W1871	6/17/08	9:22	36-0938		Flowing	*E. coli*	CFU/100mL	>200	h
CHB2.39	W1871	6/17/08	9:22	36-0938		Flowing	Total Nitrogen	mg/L	0.66	
CHB2.39	W1871	6/17/08	9:22	36-0938		Flowing	Total Phosphorus	mg/L	0.058	
CHB2.39	W1871	6/17/08	9:22	36-0938		Flowing	True Color	PCU	58	
CHB2.39	W1871	6/17/08	9:22	36-0938		Flowing	Turbidity	NTU	8.8	
CHB2.39	W1871	7/9/08	9:33	36-1027		Flowing	*E. coli*	CFU/100mL	230	
CHB2.39	W1871	7/22/08	9:39	36-1193		Flowing	Ammonia-N	mg/L	0.04	
CHB2.39	W1871	7/22/08	9:39	36-1193		Flowing	*E. coli*	CFU/100mL	410	
CHB2.39	W1871	7/22/08	9:39	36-1193		Flowing	Total Nitrogen	mg/L	0.65	
CHB2.39	W1871	7/22/08	9:39	36-1193		Flowing	Total Phosphorus	mg/L	0.029	
CHB2.39	W1871	7/22/08	9:39	36-1193		Flowing	True Color	PCU	25	
CHB2.39	W1871	7/22/08	9:39	36-1193		Flowing	Turbidity	NTU	4	
CHB2.39	W1871	8/19/08	9:45	36-1366		Flowing	Ammonia-N	mg/L	0.02	
CHB2.39	W1871	8/19/08	9:45	36-1366		Flowing	*E. coli*	CFU/100mL	>800	
CHB2.39	W1871	8/19/08	9:45	36-1366		Flowing	Total Nitrogen	mg/L	0.51	
CHB2.39	W1871	8/19/08	9:45	36-1366		Flowing	Total Phosphorus	mg/L	0.016	
CHB2.39	W1871	8/19/08	9:45	36-1366		Flowing	True Color	PCU	30	
CHB2.39	W1871	8/19/08	9:45	36-1366		Flowing	Turbidity	NTU	1.9	
CHB2.39	W1871	9/23/08	9:28	36-1487		Flowing	Ammonia-N	mg/L	0.02	
CHB2.39	W1871	9/23/08	9:28	36-1487		Flowing	*E. coli*	CFU/100mL	220	
CHB2.39	W1871	9/23/08	9:28	36-1487		Flowing	Total Nitrogen	mg/L	0.48	
CHB2.39	W1871	9/23/08	9:28	36-1487		Flowing	Total Phosphorus	mg/L	0.012	
CHB2.39	W1871	9/23/08	9:28	36-1487		Flowing	True Color	PCU	20	
CHB2.39	W1871	9/23/08	9:28	36-1487		Flowing	Turbidity	NTU	1.7	
CHB4.24	W1853	5/20/08	9:11	36-0760	36-0761	Flowing	Ammonia-N	mg/L	<0.02	
CHB4.24	W1853	5/20/08	9:11	36-0760	36-0761	Flowing	*E. coli*	CFU/100mL	102	h
CHB4.24	W1853	5/20/08	9:11	36-0760	36-0761	Flowing	Total Nitrogen	mg/L	0.36	
CHB4.24	W1853	5/20/08	9:11	36-0760	36-0761	Flowing	Total Phosphorus	mg/L	0.011	
CHB4.24	W1853	5/20/08	9:11	36-0760	36-0761	Flowing	True Color	PCU	16	
CHB4.24	W1853	5/20/08	9:11	36-0760	36-0761	Flowing	Turbidity	NTU	1.2	
CHB4.24	W1853	6/17/08	9:04	36-0935	36-0936	Flowing	Ammonia-N	mg/L	<0.02	
CHB4.24	W1853	6/17/08	9:04	36-0935	36-0936	Flowing	*E. coli*	CFU/100mL	>200	h
CHB4.24	W1853	6/17/08	9:04	36-0935	36-0936	Flowing	Total Nitrogen	mg/L	0.56	
CHB4.24	W1853	6/17/08	9:04	36-0935	36-0936	Flowing	Total Phosphorus	mg/L	0.045	
CHB4.24	W1853	6/17/08	9:04	36-0935	36-0936	Flowing	True Color	PCU	60	
CHB4.24	W1853	6/17/08	9:04	36-0935	36-0936	Flowing	Turbidity	NTU	5.2	
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Aluminum - Dissolved	µg/L	31	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Antimony - Dissolved	µg/L	<0.15	f

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Arsenic - Dissolved	µg/L	<0.51	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Cadmium - Dissolved	µg/L	<0.13	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Calcium - Dissolved	mg/L	4.4	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Chromium - Dissolved	µg/L	0.23	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Copper - Dissolved	µg/L	0.7	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Hardness	mg/L as CaCO3	17	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Lead - Dissolved	µg/L	0.26	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Magnesium - Dissolved	mg/L	1.5	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Nickel - Dissolved	µg/L	0.66	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Selenium - Dissolved	µg/L	<2.6	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Silver - Dissolved	µg/L	<0.13	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Thallium - Dissolved	µg/L	<0.16	f
CHB4.24	W1853	6/19/08	14:35	36-0978		Flowing	Zinc - Dissolved	µg/L	2.4	f
CHB4.24	W1853	7/9/08	9:10	36-1024	36-1025	Flowing	*E. coli*	CFU/100mL	260	
CHB4.24	W1853	7/22/08	9:24	36-1190	36-1191	Flowing	Ammonia-N	mg/L	0.02	
CHB4.24	W1853	7/22/08	9:24	36-1190	36-1191	Flowing	*E. coli*	CFU/100mL	440	
CHB4.24	W1853	7/22/08	9:24	36-1190	36-1191	Flowing	Hardness	mg/L	24	m
CHB4.24	W1853	7/22/08	9:24	36-1190	36-1191	Flowing	Total Nitrogen	mg/L	0.53	
CHB4.24	W1853	7/22/08	9:24	36-1190	36-1191	Flowing	Total Phosphorus	mg/L	0.017	
CHB4.24	W1853	7/22/08	9:24	36-1190	36-1191	Flowing	True Color	PCU	31	
CHB4.24	W1853	7/22/08	9:24	36-1190	36-1191	Flowing	Turbidity	NTU	2.9	d
CHB4.24	W1853	8/19/08	9:24	36-1363	36-1364	Flowing	Ammonia-N	mg/L	<0.02	
CHB4.24	W1853	8/19/08	9:24	36-1363	36-1364	Flowing	*E. coli*	CFU/100mL	310	
CHB4.24	W1853	8/19/08	9:24	36-1364	36-1363	Flowing	Hardness	mg/L	20	m
CHB4.24	W1853	8/19/08	9:24	36-1363	36-1364	Flowing	Total Nitrogen	mg/L	0.41	
CHB4.24	W1853	8/19/08	9:24	36-1363	36-1364	Flowing	Total Phosphorus	mg/L	0.014	
CHB4.24	W1853	8/19/08	9:24	36-1363	36-1364	Flowing	True Color	PCU	34	
CHB4.24	W1853	8/19/08	9:24	36-1363	36-1364	Flowing	Turbidity	NTU	1.7	
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Aluminum - Dissolved	µg/L	58	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Antimony - Dissolved	µg/L	0.26	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Arsenic - Dissolved	µg/L	<0.51	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Cadmium - Dissolved	µg/L	<0.13	f

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Calcium - Dissolved	mg/L	3.3	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Chromium - Dissolved	µg/L	0.28	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Copper - Dissolved	µg/L	1.1	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Hardness	mg/L as CaCO3	13	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Lead - Dissolved	µg/L	0.15	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Magnesium - Dissolved	mg/L	1.2	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Nickel - Dissolved	µg/L	0.94	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Selenium - Dissolved	µg/L	<2.6	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Silver - Dissolved	µg/L	<0.13	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Thallium - Dissolved	µg/L	<0.20	f
CHB4.24	W1853	9/11/08	9:20	36-1231		Flowing	Zinc - Dissolved	µg/L	3.8	f
CHB4.24	W1853	9/23/08	9:15	36-1484	36-1485	Flowing	Ammonia-N	mg/L	<0.02	
CHB4.24	W1853	9/23/08	9:15	36-1484	36-1485	Flowing	*E. coli*	CFU/100mL	40	
CHB4.24	W1853	9/23/08	9:15	36-1484	36-1485	Flowing	Total Nitrogen	mg/L	0.38	
CHB4.24	W1853	9/23/08	9:15	36-1484	36-1485	Flowing	Total Phosphorus	mg/L	0.011	
CHB4.24	W1853	9/23/08	9:15	36-1484	36-1485	Flowing	True Color	PCU	23	
CHB4.24	W1853	9/23/08	9:15	36-1484	36-1485	Flowing	Turbidity	NTU	1.6	
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Aluminum - Dissolved	µg/L	31	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Antimony - Dissolved	µg/L	<0.15	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Arsenic - Dissolved	µg/L	<0.51	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Cadmium - Dissolved	µg/L	<0.13	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Calcium - Dissolved	mg/L	3.8	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Chromium - Dissolved	µg/L	0.27	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Copper - Dissolved	µg/L	0.62	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Hardness	mg/L as CaCO3	15	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Lead - Dissolved	µg/L	0.21	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Magnesium - Dissolved	mg/L	1.3	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Nickel - Dissolved	µg/L	0.69	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Selenium - Dissolved	µg/L	<2.6	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Silver - Dissolved	µg/L	<0.13	f
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Thallium - Dissolved	µg/L	<0.16	f

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
CHB5.1	W2001	6/19/08	14:30	36-0977		Flowing	Zinc - Dissolved	µg/L	1.9	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Aluminum - Dissolved	µg/L	56	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Antimony - Dissolved	µg/L	0.24	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Arsenic - Dissolved	µg/L	<0.51	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Cadmium - Dissolved	µg/L	<0.13	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Calcium - Dissolved	mg/L	3	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Chromium - Dissolved	µg/L	0.25	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Copper - Dissolved	µg/L	1.1	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Hardness	mg/L as CaCO3	12	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Lead - Dissolved	µg/L	<0.14	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Magnesium - Dissolved	mg/L	1.1	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Nickel - Dissolved	µg/L	0.87	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Selenium - Dissolved	µg/L	<2.6	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Silver - Dissolved	µg/L	<0.13	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Thallium - Dissolved	µg/L	<0.20	f
CHB5.1	W2001	9/11/08	9:01	36-1069		Flowing	Zinc - Dissolved	µg/L	3.8	f
COB5.88	W1862	5/20/08	8:55	36-0759		Flowing	Ammonia-N	mg/L	<0.02	
COB5.88	W1862	5/20/08	8:55	36-0759		Flowing	*E. coli*	CFU/100mL	360	h
COB5.88	W1862	5/20/08	8:55	36-0759		Flowing	Total Nitrogen	mg/L	0.25	
COB5.88	W1862	5/20/08	8:55	36-0759		Flowing	Total Phosphorus	mg/L	0.012	
COB5.88	W1862	5/20/08	8:55	36-0759		Flowing	True Color	PCU	29	
COB5.88	W1862	5/20/08	8:55	36-0759		Flowing	Turbidity	NTU	1.9	
COB5.88	W1862	6/17/08	8:45	36-0934		Flowing	Ammonia-N	mg/L	<0.02	
COB5.88	W1862	6/17/08	8:45	36-0934		Flowing	*E. coli*	CFU/100mL	>200	h
COB5.88	W1862	6/17/08	8:45	36-0934		Flowing	Total Nitrogen	mg/L	0.49	
COB5.88	W1862	6/17/08	8:45	36-0934		Flowing	Total Phosphorus	mg/L	0.039	
COB5.88	W1862	6/17/08	8:45	36-0934		Flowing	True Color	PCU	69	
COB5.88	W1862	6/17/08	8:45	36-0934		Flowing	Turbidity	NTU	4.9	
COB5.88	W1862	7/9/08	9:00	36-1023		Flowing	*E. coli*	CFU/100mL	60	
COB5.88	W1862	7/22/08	9:01	36-1189		Flowing	Ammonia-N	mg/L	<0.02	
COB5.88	W1862	7/22/08	9:01	36-1189		Flowing	*E. coli*	CFU/100mL	60	
COB5.88	W1862	7/22/08	9:01	36-1189		Flowing	Total Nitrogen	mg/L	0.39	
COB5.88	W1862	7/22/08	9:01	36-1189		Flowing	Total Phosphorus	mg/L	0.015	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
COB5.88	W1862	7/22/08	9:01	36-1189		Flowing	True Color	PCU	40	
COB5.88	W1862	7/22/08	9:01	36-1189		Flowing	Turbidity	NTU	2.6	
COB5.88	W1862	8/19/08	9:10	36-1362		Flowing	Ammonia-N	mg/L	<0.02	
COB5.88	W1862	8/19/08	9:10	36-1362		Flowing	*E. coli*	CFU/100mL	180	
COB5.88	W1862	8/19/08	9:10	36-1362		Flowing	Total Nitrogen	mg/L	0.37	
COB5.88	W1862	8/19/08	9:10	36-1362		Flowing	Total Phosphorus	mg/L	0.017	
COB5.88	W1862	8/19/08	9:10	36-1362		Flowing	True Color	PCU	44	
COB5.88	W1862	8/19/08	9:10	36-1362		Flowing	Turbidity	NTU	2.4	
COB5.88	W1862	9/23/08	9:01	36-1483		Flowing	Ammonia-N	mg/L	<0.02	
COB5.88	W1862	9/23/08	9:01	36-1483		Flowing	*E. coli*	CFU/100mL	<20	
COB5.88	W1862	9/23/08	9:01	36-1483		Flowing	Total Nitrogen	mg/L	0.28	
COB5.88	W1862	9/23/08	9:01	36-1483		Flowing	Total Phosphorus	mg/L	0.011	
COB5.88	W1862	9/23/08	9:01	36-1483		Flowing	True Color	PCU	31	
COB5.88	W1862	9/23/08	9:01	36-1483		Flowing	Turbidity	NTU	2	
CT03A	W2055	5/20/08	12:40	36-0770		Flowing	Ammonia-N	mg/L	0.04	
CT03A	W2055	5/20/08	12:40	36-0770		Flowing	*E. coli*	CFU/100mL	30	
CT03A	W2055	5/20/08	12:40	36-0770		Flowing	Total Nitrogen	mg/L	0.45	
CT03A	W2055	5/20/08	12:40	36-0770		Flowing	Total Phosphorus	mg/L	0.027	
CT03A	W2055	5/20/08	12:40	36-0770		Flowing	True Color	PCU	22	
CT03A	W2055	5/20/08	12:40	36-0770		Flowing	Turbidity	NTU	2.3	
CT03A	W2055	6/17/08	12:56	36-0945		Flowing	Ammonia-N	mg/L	0.06	
CT03A	W2055	6/17/08	12:56	36-0945		Flowing	*E. coli*	CFU/100mL	770	
CT03A	W2055	6/17/08	12:56	36-0945		Flowing	Total Nitrogen	mg/L	0.61	
CT03A	W2055	6/17/08	12:56	36-0945		Flowing	Total Phosphorus	mg/L	0.036	
CT03A	W2055	6/17/08	12:56	36-0945		Flowing	True Color	PCU	28	
CT03A	W2055	6/17/08	12:56	36-0945		Flowing	Turbidity	NTU	2.7	
CT03A	W2055	7/22/08	13:27	36-1200		Flowing	Ammonia-N	mg/L	0.02	
CT03A	W2055	7/22/08	13:27	36-1200		Flowing	*E. coli*	CFU/100mL	280	
CT03A	W2055	7/22/08	13:27	36-1200		Flowing	Total Nitrogen	mg/L	0.55	
CT03A	W2055	7/22/08	13:27	36-1200		Flowing	Total Phosphorus	mg/L	0.028	
CT03A	W2055	7/22/08	13:27	36-1200		Flowing	True Color	PCU	22	
CT03A	W2055	7/22/08	13:27	36-1200		Flowing	Turbidity	NTU	1.7	
CT03A	W2055	8/19/08	12:30	36-1376		Flowing	Ammonia-N	mg/L	0.03	
CT03A	W2055	8/19/08	12:30	36-1376		Flowing	*E. coli*	CFU/100mL	700	
CT03A	W2055	8/19/08	12:30	36-1376		Flowing	Hardness	mg/L	23	
CT03A	W2055	8/19/08	12:30	36-1376		Flowing	Total Nitrogen	mg/L	0.55	
CT03A	W2055	8/19/08	12:30	36-1376		Flowing	Total Phosphorus	mg/L	0.034	
CT03A	W2055	8/19/08	12:30	36-1376		Flowing	True Color	PCU	52	
CT03A	W2055	8/19/08	12:30	36-1376		Flowing	Turbidity	NTU	2.5	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
CT03A	W2055	9/23/08	12:14	36-1494		Flowing	Ammonia-N	mg/L	0.03	
CT03A	W2055	9/23/08	12:14	36-1494		Flowing	*E. coli*	CFU/100mL	90	
CT03A	W2055	9/23/08	12:14	36-1494		Flowing	Total Nitrogen	mg/L	0.52	
CT03A	W2055	9/23/08	12:14	36-1494		Flowing	Total Phosphorus	mg/L	0.032	
CT03A	W2055	9/23/08	12:14	36-1494		Flowing	True Color	PCU	46	
CT03A	W2055	9/23/08	12:14	36-1494		Flowing	Turbidity	NTU	2	
CT03B	W0475	5/20/08	12:52	36-0771		Flowing	Ammonia-N	mg/L	0.04	
CT03B	W0475	5/20/08	12:52	36-0771		Flowing	*E. coli*	CFU/100mL	40	
CT03B	W0475	5/20/08	12:52	36-0771		Flowing	Nitrate/Nitrite-N	mg/L	0.18	
CT03B	W0475	5/20/08	12:52	36-0771		Flowing	Total Nitrogen	mg/L	0.45	
CT03B	W0475	5/20/08	12:52	36-0771		Flowing	Total Phosphorus	mg/L	0.025	
CT03B	W0475	5/20/08	12:52	36-0771		Flowing	True Color	PCU	20	
CT03B	W0475	5/20/08	12:52	36-0771		Flowing	Turbidity	NTU	2.3	
CT03B	W0475	6/17/08	13:04	36-0946		Flowing	Ammonia-N	mg/L	0.06	
CT03B	W0475	6/17/08	13:04	36-0946		Flowing	*E. coli*	CFU/100mL	760	
CT03B	W0475	6/17/08	13:04	36-0946		Flowing	Total Nitrogen	mg/L	0.61	
CT03B	W0475	6/17/08	13:04	36-0946		Flowing	Total Phosphorus	mg/L	0.038	
CT03B	W0475	6/17/08	13:04	36-0946		Flowing	True Color	PCU	30	
CT03B	W0475	6/17/08	13:04	36-0946		Flowing	Turbidity	NTU	2.7	
CT03B	W0475	7/9/08	12:30	36-1035		Flowing	*E. coli*	CFU/100mL	120	
CT03B	W0475	7/22/08	13:39	36-1201		Flowing	Ammonia-N	mg/L	0.03	
CT03B	W0475	7/22/08	13:39	36-1201		Flowing	*E. coli*	CFU/100mL	210	
CT03B	W0475	7/22/08	13:39	36-1201		Flowing	Total Nitrogen	mg/L	0.55	
CT03B	W0475	7/22/08	13:39	36-1201		Flowing	Total Phosphorus	mg/L	0.028	
CT03B	W0475	7/22/08	13:39	36-1201		Flowing	True Color	PCU	21	
CT03B	W0475	7/22/08	13:39	36-1201		Flowing	Turbidity	NTU	1.6	
CT03B	W0475	8/19/08	12:35	36-1374		Flowing	Ammonia-N	mg/L	0.03	
CT03B	W0475	8/19/08	12:35	36-1374		Flowing	*E. coli*	CFU/100mL	600	
CT03B	W0475	8/19/08	12:35	36-1374		Flowing	Total Nitrogen	mg/L	0.55	
CT03B	W0475	8/19/08	12:35	36-1374		Flowing	Total Phosphorus	mg/L	0.033	
CT03B	W0475	8/19/08	12:35	36-1374		Flowing	True Color	PCU	50	
CT03B	W0475	8/19/08	12:35	36-1374		Flowing	Turbidity	NTU	1.9	
CT03B	W0475	9/23/08	12:21	36-1495		Flowing	Ammonia-N	mg/L	0.03	
CT03B	W0475	9/23/08	12:21	36-1495		Flowing	*E. coli*	CFU/100mL	50	
CT03B	W0475	9/23/08	12:21	36-1495		Flowing	Total Nitrogen	mg/L	0.54	
CT03B	W0475	9/23/08	12:21	36-1495		Flowing	Total Phosphorus	mg/L	0.034	
CT03B	W0475	9/23/08	12:21	36-1495		Flowing	True Color	PCU	46	
CT03B	W0475	9/23/08	12:21	36-1495		Flowing	Turbidity	NTU	2.3	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
CT03C	W2056	5/20/08	13:05	36-0772		Flowing	Ammonia-N	mg/L	0.04	
CT03C	W2056	5/20/08	13:05	36-0772		Flowing	*E. coli*	CFU/100mL	18	
CT03C	W2056	5/20/08	13:05	36-0772		Flowing	Total Nitrogen	mg/L	0.44	
CT03C	W2056	5/20/08	13:05	36-0772		Flowing	Total Phosphorus	mg/L	0.026	
CT03C	W2056	5/20/08	13:05	36-0772		Flowing	True Color	PCU	22	
CT03C	W2056	5/20/08	13:05	36-0772		Flowing	Turbidity	NTU	2.3	
CT03C	W2056	6/17/08	13:20	36-0947		Flowing	Ammonia-N	mg/L	0.06	
CT03C	W2056	6/17/08	13:20	36-0947		Flowing	*E. coli*	CFU/100mL	890	
CT03C	W2056	6/17/08	13:20	36-0947		Flowing	Total Nitrogen	mg/L	0.62	
CT03C	W2056	6/17/08	13:20	36-0947		Flowing	Total Phosphorus	mg/L	0.036	
CT03C	W2056	6/17/08	13:20	36-0947		Flowing	True Color	PCU	28	
CT03C	W2056	6/17/08	13:20	36-0947		Flowing	Turbidity	NTU	3	
CT03C	W2056	7/9/08	12:45	36-1036		Flowing	*E. coli*	CFU/100mL	140	
CT03C	W2056	7/22/08	13:45	36-1202		Flowing	Ammonia-N	mg/L	0.03	
CT03C	W2056	7/22/08	13:45	36-1202		Flowing	*E. coli*	CFU/100mL	600	
CT03C	W2056	7/22/08	13:45	36-1202		Flowing	Total Nitrogen	mg/L	0.57	
CT03C	W2056	7/22/08	13:45	36-1202		Flowing	Total Phosphorus	mg/L	0.03	
CT03C	W2056	7/22/08	13:45	36-1202		Flowing	True Color	PCU	21	
CT03C	W2056	7/22/08	13:45	36-1202		Flowing	Turbidity	NTU	1.6	
CT03C	W2056	8/19/08	12:40	36-1375		Flowing	Ammonia-N	mg/L	0.03	
CT03C	W2056	8/19/08	12:40	36-1375		Flowing	*E. coli*	CFU/100mL	800	
CT03C	W2056	8/19/08	12:40	36-1375		Flowing	Total Nitrogen	mg/L	0.57	
CT03C	W2056	8/19/08	12:40	36-1375		Flowing	Total Phosphorus	mg/L	0.033	
CT03C	W2056	8/19/08	12:40	36-1375		Flowing	True Color	PCU	79	
CT03C	W2056	8/19/08	12:40	36-1375		Flowing	Turbidity	NTU	2	
CT03C	W2056	9/23/08	12:26	36-1496		Flowing	Ammonia-N	mg/L	0.03	
CT03C	W2056	9/23/08	12:26	36-1496		Flowing	*E. coli*	CFU/100mL	40	
CT03C	W2056	9/23/08	12:26	36-1496		Flowing	Total Nitrogen	mg/L	0.55	
CT03C	W2056	9/23/08	12:26	36-1496		Flowing	Total Phosphorus	mg/L	0.034	
CT03C	W2056	9/23/08	12:26	36-1496		Flowing	True Color	PCU	46	
CT03C	W2056	9/23/08	12:26	36-1496		Flowing	Turbidity	NTU	2.2	
DAB0.66	W1860	5/20/08	11:44	36-0756		Flowing	*E. coli*	CFU/100mL	68	
DAB0.66	W1860	5/20/08	11:44	36-0756		Flowing	True Color	PCU	48	
DAB0.66	W1860	5/20/08	11:44	36-0756		Flowing	Turbidity	NTU	2.2	
DAB0.66	W1860	6/17/08	11:51	36-0931		Flowing	*E. coli*	CFU/100mL	770	
DAB0.66	W1860	6/17/08	11:51	36-0931		Flowing	True Color	PCU	79	
DAB0.66	W1860	6/17/08	11:51	36-0931		Flowing	Turbidity	NTU	6.1	
DAB0.66	W1860	7/9/08	11:15	36-1020		**	*E. coli*	CFU/100mL	40	
DAB0.66	W1860	7/22/08	11:53	36-1186		Flowing	Ammonia-N	mg/L	0.02	
DAB0.66	W1860	7/22/08	11:53	36-1186		Flowing	*E. coli*	CFU/100mL	140	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
DAB0.66	W1860	7/22/08	11:53	36-1186		Flowing	Total Nitrogen	mg/L	1	
DAB0.66	W1860	7/22/08	11:53	36-1186		Flowing	Total Phosphorus	mg/L	0.14	
DAB0.66	W1860	7/22/08	11:53	36-1186		Flowing	True Color	PCU	45	
DAB0.66	W1860	7/22/08	11:53	36-1186		Flowing	Turbidity	NTU	2.8	
DAB0.66	W1860	8/19/08	11:50	36-1359		Flowing	Ammonia-N	mg/L	<0.02	
DAB0.66	W1860	8/19/08	11:50	36-1359		Flowing	*E. coli*	CFU/100mL	>800	
DAB0.66	W1860	8/19/08	11:50	36-1359		Flowing	Total Nitrogen	mg/L	0.96	
DAB0.66	W1860	8/19/08	11:50	36-1359		Flowing	Total Phosphorus	mg/L	0.12	
DAB0.66	W1860	8/19/08	11:50	36-1359		Flowing	True Color	PCU	60	
DAB0.66	W1860	8/19/08	11:50	36-1359		Flowing	Turbidity	NTU	2.5	
DAB0.66	W1860	9/23/08	11:43	36-1544		Flowing	Ammonia-N	mg/L	<0.02	
DAB0.66	W1860	9/23/08	11:43	36-1544		Flowing	*E. coli*	CFU/100mL	200	
DAB0.66	W1860	9/23/08	11:43	36-1544		Flowing	Total Nitrogen	mg/L	0.87	
DAB0.66	W1860	9/23/08	11:43	36-1544		Flowing	Total Phosphorus	mg/L	0.067	
DAB0.66	W1860	9/23/08	11:43	36-1544		Flowing	True Color	PCU	40	
DAB0.66	W1860	9/23/08	11:43	36-1544		Flowing	Turbidity	NTU	1.2	
DB07	W1039	5/20/08	10:58	36-0739		Flowing	Ammonia-N	mg/L	0.28	
DB07	W1039	5/20/08	10:58	36-0739		Flowing	*E. coli*	CFU/100mL	14	
DB07	W1039	5/20/08	10:58	36-0739		Flowing	Total Nitrogen	mg/L	7.2	
DB07	W1039	5/20/08	10:58	36-0739		Flowing	Total Phosphorus	mg/L	0.05	
DB07	W1039	5/20/08	10:58	36-0739		Flowing	True Color	PCU	17	
DB07	W1039	5/20/08	10:58	36-0739		Flowing	Turbidity	NTU	1.9	
DB07	W1039	6/17/08	10:17	36-0914		Flowing	Ammonia-N	mg/L	0.06	
DB07	W1039	6/17/08	10:17	36-0914		Flowing	*E. coli*	CFU/100mL	250	
DB07	W1039	6/17/08	10:17	36-0914		Flowing	Total Nitrogen	mg/L	7.5	
DB07	W1039	6/17/08	10:17	36-0914		Flowing	Total Phosphorus	mg/L	0.058	
DB07	W1039	6/17/08	10:17	36-0914		Flowing	True Color	PCU	29	
DB07	W1039	6/17/08	10:17	36-0914		Flowing	Turbidity	NTU	2.1	
DB07	W1039	7/9/08	9:47	36-1003		Flowing	*E. coli*	CFU/100mL	80	
DB07	W1039	7/22/08	10:05	36-1169		Flowing	Ammonia-N	mg/L	0.06	
DB07	W1039	7/22/08	10:05	36-1169		Flowing	*E. coli*	CFU/100mL	120	
DB07	W1039	7/22/08	10:05	36-1169		Flowing	Total Nitrogen	mg/L	15	
DB07	W1039	7/22/08	10:05	36-1169		Flowing	Total Phosphorus	mg/L	0.14	
DB07	W1039	7/22/08	10:05	36-1169		Flowing	True Color	PCU	21	
DB07	W1039	7/22/08	10:05	36-1169		Flowing	Turbidity	NTU	2.6	
DB07	W1039	8/19/08	10:13	36-1342		Flowing	Ammonia-N	mg/L	0.04	
DB07	W1039	8/19/08	10:13	36-1342		Flowing	*E. coli*	CFU/100mL	50	
DB07	W1039	8/19/08	10:13	36-1342		Flowing	Total Nitrogen	mg/L	11	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
DB07	W1039	8/19/08	10:13	36-1342		Flowing	Total Phosphorus	mg/L	0.06	
DB07	W1039	8/19/08	10:13	36-1342		Flowing	True Color	PCU	<15	
DB07	W1039	8/19/08	10:13	36-1342		Flowing	Turbidity	NTU	2.9	
DB07	W1039	9/23/08	10:20	36-1533		Flowing	Ammonia-N	mg/L	0.13	
DB07	W1039	9/23/08	10:20	36-1533		Flowing	*E. coli*	CFU/100mL	<20	
DB07	W1039	9/23/08	10:20	36-1533		Flowing	Total Nitrogen	mg/L	6	
DB07	W1039	9/23/08	10:20	36-1533		Flowing	Total Phosphorus	mg/L	0.045	
DB07	W1039	9/23/08	10:20	36-1533		Flowing	True Color	PCU	16	
DB07	W1039	9/23/08	10:20	36-1533		Flowing	Turbidity	NTU	2.3	
DB08	W1040	5/20/08	10:48	36-0738		Flowing	Ammonia-N	mg/L	0.03	
DB08	W1040	5/20/08	10:48	36-0738		Flowing	*E. coli*	CFU/100mL	248	
DB08	W1040	5/20/08	10:48	36-0738		Flowing	Total Nitrogen	mg/L	0.7	
DB08	W1040	5/20/08	10:48	36-0738		Flowing	Total Phosphorus	mg/L	0.016	
DB08	W1040	5/20/08	10:48	36-0738		Flowing	True Color	PCU	21	
DB08	W1040	5/20/08	10:48	36-0738		Flowing	Turbidity	NTU	1	
DB08	W1040	6/17/08	10:03	36-0913		Flowing	Ammonia-N	mg/L	0.04	
DB08	W1040	6/17/08	10:03	36-0913		Flowing	*E. coli*	CFU/100mL	340	
DB08	W1040	6/17/08	10:03	36-0913		Flowing	Total Nitrogen	mg/L	0.77	
DB08	W1040	6/17/08	10:03	36-0913		Flowing	Total Phosphorus	mg/L	0.031	
DB08	W1040	6/17/08	10:03	36-0913		Flowing	True Color	PCU	34	
DB08	W1040	6/17/08	10:03	36-0913		Flowing	Turbidity	NTU	2.3	
DB08	W1040	7/9/08	9:40	36-1002		Flowing	*E. coli*	CFU/100mL	130	
DB08	W1040	7/22/08	9:50	36-1168		Flowing	Ammonia-N	mg/L	0.04	
DB08	W1040	7/22/08	9:50	36-1168		Flowing	*E. coli*	CFU/100mL	260	
DB08	W1040	7/22/08	9:50	36-1168		Flowing	Total Nitrogen	mg/L	0.78	
DB08	W1040	7/22/08	9:50	36-1168		Flowing	Total Phosphorus	mg/L	0.032	
DB08	W1040	7/22/08	9:50	36-1168		Flowing	True Color	PCU	21	
DB08	W1040	7/22/08	9:50	36-1168		Flowing	Turbidity	NTU	4.8	
DB08	W1040	8/19/08	10:03	36-1341		Flowing	Ammonia-N	mg/L	<0.02	
DB08	W1040	8/19/08	10:03	36-1341		Flowing	*E. coli*	CFU/100mL	620	
DB08	W1040	8/19/08	10:03	36-1341		Flowing	Total Nitrogen	mg/L	0.73	
DB08	W1040	8/19/08	10:03	36-1341		Flowing	Total Phosphorus	mg/L	0.025	
DB08	W1040	8/19/08	10:03	36-1341		Flowing	True Color	PCU	25	
DB08	W1040	8/19/08	10:03	36-1341		Flowing	Turbidity	NTU	3	
DB08	W1040	9/23/08	10:10	36-1532		Flowing	Ammonia-N	mg/L	<0.02	
DB08	W1040	9/23/08	10:10	36-1532		Flowing	*E. coli*	CFU/100mL	20	
DB08	W1040	9/23/08	10:10	36-1532		Flowing	Total Nitrogen	mg/L	0.62	
DB08	W1040	9/23/08	10:10	36-1532		Flowing	Total Phosphorus	mg/L	0.018	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
DB08	W1040	9/23/08	10:10	36-1532		Flowing	True Color	PCU	21	
DB08	W1040	9/23/08	10:10	36-1532		Flowing	Turbidity	NTU	2.2	
DB1.0	W1873	5/20/08	11:13	36-0740		Flowing	Ammonia-N	mg/L	0.03	
DB1.0	W1873	5/20/08	11:13	36-0740		Flowing	*E. coli*	CFU/100mL	62	
DB1.0	W1873	5/20/08	11:13	36-0740		Flowing	Total Nitrogen	mg/L	0.69	
DB1.0	W1873	5/20/08	11:13	36-0740		Flowing	Total Phosphorus	mg/L	0.077	
DB1.0	W1873	5/20/08	11:13	36-0740		Flowing	True Color	PCU	65	
DB1.0	W1873	5/20/08	11:13	36-0740		Flowing	Turbidity	NTU	2.8	
DB1.0	W1873	6/17/08	10:36	36-0915		Flowing	Ammonia-N	mg/L	0.05	
DB1.0	W1873	6/17/08	10:36	36-0915		Flowing	*E. coli*	CFU/100mL	640	
DB1.0	W1873	6/17/08	10:36	36-0915		Flowing	Total Nitrogen	mg/L	0.83	
DB1.0	W1873	6/17/08	10:36	36-0915		Flowing	Total Phosphorus	mg/L	0.22	
DB1.0	W1873	6/17/08	10:36	36-0915		Flowing	True Color	PCU	135	
DB1.0	W1873	6/17/08	10:36	36-0915		Flowing	Turbidity	NTU	5.5	
DB1.0	W1873	7/9/08	10:00	36-1004		Flowing	*E. coli*	CFU/100mL	70	
DB1.0	W1873	7/22/08	10:25	36-1167		Flowing	Ammonia-N	mg/L	0.02	
DB1.0	W1873	7/22/08	10:25	36-1167		Flowing	*E. coli*	CFU/100mL	<20	
DB1.0	W1873	7/22/08	10:25	36-1167		Flowing	Total Nitrogen	mg/L	0.88	
DB1.0	W1873	7/22/08	10:25	36-1167		Flowing	Total Phosphorus	mg/L	0.23	
DB1.0	W1873	7/22/08	10:25	36-1167		Flowing	True Color	PCU	74	
DB1.0	W1873	7/22/08	10:25	36-1167		Flowing	Turbidity	NTU	8	
DB1.0	W1873	8/19/08	10:28	36-1343		Flowing	Ammonia-N	mg/L	<0.02	
DB1.0	W1873	8/19/08	10:28	36-1343		Flowing	*E. coli*	CFU/100mL	220	
DB1.0	W1873	8/19/08	10:28	36-1343		Flowing	Total Nitrogen	mg/L	0.73	
DB1.0	W1873	8/19/08	10:28	36-1343		Flowing	Total Phosphorus	mg/L	0.19	
DB1.0	W1873	8/19/08	10:28	36-1343		Flowing	True Color	PCU	98	
DB1.0	W1873	8/19/08	10:28	36-1343		Flowing	Turbidity	NTU	9.7	
DB1.0	W1873	9/23/08	10:35	36-1534		Flowing	Ammonia-N	mg/L	0.09	
DB1.0	W1873	9/23/08	10:35	36-1534		Flowing	*E. coli*	CFU/100mL	100	
DB1.0	W1873	9/23/08	10:35	36-1534		Flowing	Total Nitrogen	mg/L	0.82	
DB1.0	W1873	9/23/08	10:35	36-1534		Flowing	Total Phosphorus	mg/L	0.1	
DB1.0	W1873	9/23/08	10:35	36-1534		Flowing	True Color	PCU	56	
DB1.0	W1873	9/23/08	10:35	36-1534		Flowing	Turbidity	NTU	4.5	
EB04	W1038	5/20/08	10:28	36-0737		Flowing	Ammonia-N	mg/L	0.03	
EB04	W1038	5/20/08	10:28	36-0737		Flowing	*E. coli*	CFU/100mL	2	
EB04	W1038	5/20/08	10:28	36-0737		Flowing	Total Nitrogen	mg/L	0.26	
EB04	W1038	5/20/08	10:28	36-0737		Flowing	Total Phosphorus	mg/L	0.016	
EB04	W1038	5/20/08	10:28	36-0737		Flowing	True Color	PCU	21	
EB04	W1038	5/20/08	10:28	36-0737		Flowing	Turbidity	NTU	2.1	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
EB04	W1038	6/17/08	9:46	36-0912		Flowing	Ammonia-N	mg/L	0.02	
EB04	W1038	6/17/08	9:46	36-0912		Flowing	*E. coli*	CFU/100mL	10	
EB04	W1038	6/17/08	9:46	36-0912		Flowing	Total Nitrogen	mg/L	0.28	
EB04	W1038	6/17/08	9:46	36-0912		Flowing	Total Phosphorus	mg/L	0.015	
EB04	W1038	6/17/08	9:46	36-0912		Flowing	True Color	PCU	<15	
EB04	W1038	6/17/08	9:46	36-0912		Flowing	Turbidity	NTU	1.3	
EB04	W1038	7/9/08	9:25	36-1001		Flowing	*E. coli*	CFU/100mL	<10	
EB04	W1038	7/22/08	9:30	36-1170		Flowing	Ammonia-N	mg/L	0.02	
EB04	W1038	7/22/08	9:30	36-1170		Flowing	*E. coli*	CFU/100mL	20	
EB04	W1038	7/22/08	9:30	36-1170		Flowing	Total Nitrogen	mg/L	0.37	
EB04	W1038	7/22/08	9:30	36-1170		Flowing	Total Phosphorus	mg/L	0.012	
EB04	W1038	7/22/08	9:30	36-1170		Flowing	True Color	PCU	<15	
EB04	W1038	7/22/08	9:30	36-1170		Flowing	Turbidity	NTU	1.5	
EB04	W1038	8/19/08	9:50	36-1340		Flowing	Ammonia-N	mg/L	<0.02	
EB04	W1038	8/19/08	9:50	36-1340		Flowing	*E. coli*	CFU/100mL	10	
EB04	W1038	8/19/08	9:50	36-1340		Flowing	Total Nitrogen	mg/L	0.36	
EB04	W1038	8/19/08	9:50	36-1340		Flowing	Total Phosphorus	mg/L	0.015	
EB04	W1038	8/19/08	9:50	36-1340		Flowing	True Color	PCU	28	
EB04	W1038	8/19/08	9:50	36-1340		Flowing	Turbidity	NTU	2.7	
EB04	W1038	9/23/08	9:55	36-1531		Flowing	Ammonia-N	mg/L	<0.02	
EB04	W1038	9/23/08	9:55	36-1531		Flowing	*E. coli*	CFU/100mL	<20	
EB04	W1038	9/23/08	9:55	36-1531		Flowing	Total Nitrogen	mg/L	0.38	
EB04	W1038	9/23/08	9:55	36-1531		Flowing	Total Phosphorus	mg/L	0.022	
EB04	W1038	9/23/08	9:55	36-1531		Flowing	True Color	PCU	32	
EB04	W1038	9/23/08	9:55	36-1531		Flowing	Turbidity	NTU	4.1	
EWB60.75	W1848	5/20/08	8:58	36-0746		Flowing	Ammonia-N	mg/L	<0.02	
EWB60.75	W1848	5/20/08	8:58	36-0746		Flowing	*E. coli*	CFU/100mL	8	h
EWB60.75	W1848	5/20/08	8:58	36-0746		Flowing	Total Nitrogen	mg/L	0.29	
EWB60.75	W1848	5/20/08	8:58	36-0746		Flowing	Total Phosphorus	mg/L	0.017	
EWB60.75	W1848	5/20/08	8:58	36-0746		Flowing	True Color	PCU	32	
EWB60.75	W1848	5/20/08	8:58	36-0746		Flowing	Turbidity	NTU	1.7	
EWB60.75	W1848	6/17/08	8:55	36-0921		Flowing	Ammonia-N	mg/L	0.02	
EWB60.75	W1848	6/17/08	8:55	36-0921		Flowing	*E. coli*	CFU/100mL	80	h
EWB60.75	W1848	6/17/08	8:55	36-0921		Flowing	Total Nitrogen	mg/L	0.44	
EWB60.75	W1848	6/17/08	8:55	36-0921		Flowing	Total Phosphorus	mg/L	0.025	
EWB60.75	W1848	6/17/08	8:55	36-0921		Flowing	True Color	PCU	56	
EWB60.75	W1848	6/17/08	8:55	36-0921		Flowing	Turbidity	NTU	2	
EWB60.75	W1848	7/9/08	9:07	36-1010		Flowing	*E. coli*	CFU/100mL	<10	
EWB60.75	W1848	7/22/08	9:00	36-1176		Flowing	Ammonia-N	mg/L	0.02	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
EWB60.75	W1848	7/22/08	9:00	36-1176		Flowing	*E. coli*	CFU/100mL	40	
EWB60.75	W1848	7/22/08	9:00	36-1176		Flowing	Hardness	mg/L	<20	
EWB60.75	W1848	7/22/08	9:00	36-1176		Flowing	Total Nitrogen	mg/L	0.4	
EWB60.75	W1848	7/22/08	9:00	36-1176		Flowing	Total Phosphorus	mg/L	0.02	
EWB60.75	W1848	7/22/08	9:00	36-1176		Flowing	True Color	PCU	48	
EWB60.75	W1848	7/22/08	9:00	36-1176		Flowing	Turbidity	NTU	2.5	
EWB60.75	W1848	8/19/08	9:25	36-1349		Flowing	Ammonia-N	mg/L	<0.02	
EWB60.75	W1848	8/19/08	9:25	36-1349		Flowing	*E. coli*	CFU/100mL	50	
EWB60.75	W1848	8/19/08	9:25	36-1349		Flowing	Total Nitrogen	mg/L	0.4	
EWB60.75	W1848	8/19/08	9:25	36-1349		Flowing	Total Phosphorus	mg/L	0.018	
EWB60.75	W1848	8/19/08	9:25	36-1349		Flowing	True Color	PCU	65	
EWB60.75	W1848	8/19/08	9:25	36-1349		Flowing	Turbidity	NTU	1.9	
EWB60.75	W1848	9/23/08	8:57	36-1540		Flowing	Ammonia-N	mg/L	<0.02	
EWB60.75	W1848	9/23/08	8:57	36-1540		Flowing	*E. coli*	CFU/100mL	40	
EWB60.75	W1848	9/23/08	8:57	36-1540		Flowing	Total Nitrogen	mg/L	0.29	
EWB60.75	W1848	9/23/08	8:57	36-1540		Flowing	Total Phosphorus	mg/L	0.016	
EWB60.75	W1848	9/23/08	8:57	36-1540		Flowing	True Color	PCU	43	
EWB60.75	W1848	9/23/08	8:57	36-1540		Flowing	Turbidity	NTU	1.6	
GAB0.04	W1852	5/20/08	9:45	36-0751		Flowing	*E. coli*	CFU/100mL	2	
GAB0.04	W1852	5/20/08	9:45	36-0751		Flowing	True Color	PCU	37	
GAB0.04	W1852	5/20/08	9:45	36-0751		Flowing	Turbidity	NTU	1.2	
GAB0.04	W1852	6/17/08	9:40	36-0926		Flowing	*E. coli*	CFU/100mL	150	h
GAB0.04	W1852	6/17/08	9:40	36-0926		Flowing	True Color	PCU	49	
GAB0.04	W1852	6/17/08	9:40	36-0926		Flowing	Turbidity	NTU	2.4	
GAB0.04	W1852	7/9/08	9:50	36-1015		**	*E. coli*	CFU/100mL	40	
GAB0.04	W1852	7/22/08	9:46	36-1181		Flowing	Ammonia-N	mg/L	<0.02	
GAB0.04	W1852	7/22/08	9:46	36-1181		Flowing	*E. coli*	CFU/100mL	200	
GAB0.04	W1852	7/22/08	9:46	36-1181		Flowing	Total Nitrogen	mg/L	0.75	
GAB0.04	W1852	7/22/08	9:46	36-1181		Flowing	Total Phosphorus	mg/L	0.071	
GAB0.04	W1852	7/22/08	9:46	36-1181		Flowing	True Color	PCU	57	
GAB0.04	W1852	7/22/08	9:46	36-1181		Flowing	Turbidity	NTU	2.7	
GAB0.04	W1852	8/19/08	10:10	36-1354		Flowing	Ammonia-N	mg/L	<0.02	
GAB0.04	W1852	8/19/08	10:10	36-1354		Flowing	*E. coli*	CFU/100mL	50	
GAB0.04	W1852	8/19/08	10:10	36-1354		Flowing	Total Nitrogen	mg/L	0.68	
GAB0.04	W1852	8/19/08	10:10	36-1354		Flowing	Total Phosphorus	mg/L	0.059	
GAB0.04	W1852	8/19/08	10:10	36-1354		Flowing	True Color	PCU	63	
GAB0.04	W1852	8/19/08	10:10	36-1354		Flowing	Turbidity	NTU	2.2	
GAB0.04	W1852	9/23/08	9:39	36-1475		Flowing	Ammonia-N	mg/L	<0.02	
GAB0.04	W1852	9/23/08	9:39	36-1475		Flowing	*E. coli*	CFU/100mL	<20	
GAB0.04	W1852	9/23/08	9:39	36-1475		Flowing	Total	mg/L	0.46	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
							Nitrogen			
GAB0.04	W1852	9/23/08	9:39	36-1475		Flowing	Total Phosphorus	mg/L	0.036	
GAB0.04	W1852	9/23/08	9:39	36-1475		Flowing	True Color	PCU	41	
GAB0.04	W1852	9/23/08	9:39	36-1475		Flowing	Turbidity	NTU	1	
JAB6.53	W1859	5/20/08	9:51	36-0776		Flowing	*E. coli*	CFU/100mL	22	
JAB6.53	W1859	5/20/08	9:51	36-0776		Flowing	True Color	PCU	18	
JAB6.53	W1859	5/20/08	9:51	36-0776		Flowing	Turbidity	NTU	1.5	
JAB6.53	W1859	6/17/08	9:35	36-0951		Flowing	*E. coli*	CFU/100mL	1120	h
JAB6.53	W1859	6/17/08	9:35	36-0951		Flowing	True Color	PCU	47	
JAB6.53	W1859	6/17/08	9:35	36-0951		Flowing	Turbidity	NTU	3.8	
JAB6.53	W1859	7/9/08	9:46	36-1040		Flowing	*E. coli*	CFU/100mL	120	
JAB6.53	W1859	7/22/08	9:55	36-1206		Flowing	Ammonia-N	mg/L	0.05	
JAB6.53	W1859	7/22/08	9:55	36-1206		Flowing	*E. coli*	CFU/100mL	100	
JAB6.53	W1859	7/22/08	9:55	36-1206		Flowing	Total Nitrogen	mg/L	0.42	
JAB6.53	W1859	7/22/08	9:55	36-1206		Flowing	Total Phosphorus	mg/L	0.022	
JAB6.53	W1859	7/22/08	9:55	36-1206		Flowing	True Color	PCU	28	
JAB6.53	W1859	7/22/08	9:55	36-1206		Flowing	Turbidity	NTU	4.8	
JAB6.53	W1859	8/19/08	9:39	36-1379		Flowing	Ammonia-N	mg/L	0.02	
JAB6.53	W1859	8/19/08	9:39	36-1379		Flowing	*E. coli*	CFU/100mL	140	
JAB6.53	W1859	8/19/08	9:39	36-1379		Flowing	Total Nitrogen	mg/L	0.4	
JAB6.53	W1859	8/19/08	9:39	36-1379		Flowing	Total Phosphorus	mg/L	0.014	
JAB6.53	W1859	8/19/08	9:39	36-1379		Flowing	True Color	PCU	29	
JAB6.53	W1859	8/19/08	9:39	36-1379		Flowing	Turbidity	NTU	2.4	
JAB6.53	W1859	9/23/08	9:45	36-1501		Flowing	Ammonia-N	mg/L	0.03	
JAB6.53	W1859	9/23/08	9:45	36-1501		Flowing	*E. coli*	CFU/100mL	20	
JAB6.53	W1859	9/23/08	9:45	36-1501		Flowing	Total Nitrogen	mg/L	0.45	
JAB6.53	W1859	9/23/08	9:45	36-1501		Flowing	Total Phosphorus	mg/L	0.013	
JAB6.53	W1859	9/23/08	9:45	36-1501		Flowing	True Color	PCU	24	
JAB6.53	W1859	9/23/08	9:45	36-1501		Flowing	Turbidity	NTU	1.9	
JAB7.84	W1874	5/20/08	10:00	36-0777		Flowing	Ammonia-N	mg/L	<0.02	
JAB7.84	W1874	5/20/08	10:00	36-0777		Flowing	*E. coli*	CFU/100mL	110	
JAB7.84	W1874	5/20/08	10:00	36-0777		Flowing	Total Nitrogen	mg/L	0.28	
JAB7.84	W1874	5/20/08	10:00	36-0777		Flowing	Total Phosphorus	mg/L	0.006	
JAB7.84	W1874	5/20/08	10:00	36-0777		Flowing	True Color	PCU	18	
JAB7.84	W1874	5/20/08	10:00	36-0777		Flowing	Turbidity	NTU	0.7	
JAB7.84	W1874	6/17/08	9:45	36-0952		Flowing	Ammonia-N	mg/L	0.03	
JAB7.84	W1874	6/17/08	9:45	36-0952		Flowing	*E. coli*	CFU/100mL	740	h
JAB7.84	W1874	6/17/08	9:45	36-0952		Flowing	Total Nitrogen	mg/L	0.62	
JAB7.84	W1874	6/17/08	9:45	36-0952		Flowing	Total Phosphorus	mg/L	0.031	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
JAB7.84	W1874	6/17/08	9:45	36-0952		Flowing	True Color	PCU	85	
JAB7.84	W1874	6/17/08	9:45	36-0952		Flowing	Turbidity	NTU	3.4	
JAB7.84	W1874	7/9/08	9:59	36-1041		Flowing	*E. coli*	CFU/100mL	90	
JAB7.84	W1874	7/22/08	10:06	36-1207		**	Ammonia-N	mg/L	<0.02	
JAB7.84	W1874	7/22/08	10:06	36-1207		**	*E. coli*	CFU/100mL	70	
JAB7.84	W1874	7/22/08	10:06	36-1207		**	Hardness	mg/L	29	
JAB7.84	W1874	7/22/08	10:06	36-1207		**	Total Nitrogen	mg/L	0.48	
JAB7.84	W1874	7/22/08	10:06	36-1207		**	Total Phosphorus	mg/L	0.012	
JAB7.84	W1874	7/22/08	10:06	36-1207		**	True Color	PCU	33	
JAB7.84	W1874	7/22/08	10:06	36-1207		**	Turbidity	NTU	1.2	
JAB7.84	W1874	8/19/08	9:27	36-1380		Flowing	Ammonia-N	mg/L	<0.02	
JAB7.84	W1874	8/19/08	9:27	36-1380		Flowing	*E. coli*	CFU/100mL	110	
JAB7.84	W1874	8/19/08	9:27	36-1380		Flowing	Hardness	mg/L	<20	
JAB7.84	W1874	8/19/08	9:27	36-1380		Flowing	Total Nitrogen	mg/L	0.34	
JAB7.84	W1874	8/19/08	9:27	36-1380		Flowing	Total Phosphorus	mg/L	0.008	
JAB7.84	W1874	8/19/08	9:27	36-1380		Flowing	True Color	PCU	40	
JAB7.84	W1874	8/19/08	9:27	36-1380		Flowing	Turbidity	NTU	1.3	
JAB7.84	W1874	9/23/08	10:00	36-1502		Flowing	Ammonia-N	mg/L	<0.02	
JAB7.84	W1874	9/23/08	10:00	36-1502		Flowing	*E. coli*	CFU/100mL	<20	
JAB7.84	W1874	9/23/08	10:00	36-1502		Flowing	Total Nitrogen	mg/L	0.34	
JAB7.84	W1874	9/23/08	10:00	36-1502		Flowing	Total Phosphorus	mg/L	0.006	
JAB7.84	W1874	9/23/08	10:00	36-1502		Flowing	True Color	PCU	22	
JAB7.84	W1874	9/23/08	10:00	36-1502		Flowing	Turbidity	NTU	<0.5	
JOB6.23	W1861	5/20/08	8:34	36-0745		Flowing	*E. coli*	CFU/100mL	8	h
JOB6.23	W1861	5/20/08	8:34	36-0745		Flowing	True Color	PCU	58	
JOB6.23	W1861	5/20/08	8:34	36-0745		Flowing	Turbidity	NTU	0.9	
JOB6.23	W1861	6/17/08	8:32	36-0920		Flowing	*E. coli*	CFU/100mL	50	h
JOB6.23	W1861	6/17/08	8:32	36-0920		Flowing	True Color	PCU	125	
JOB6.23	W1861	6/17/08	8:32	36-0920		Flowing	Turbidity	NTU	2.5	
JOB6.23	W1861	7/9/08	8:45	36-1009		Flowing	*E. coli*	CFU/100mL	20	
JOB6.23	W1861	7/22/08	8:31	36-1175		Flowing	Ammonia-N	mg/L	0.04	
JOB6.23	W1861	7/22/08	8:31	36-1175		Flowing	*E. coli*	CFU/100mL	20	
JOB6.23	W1861	7/22/08	8:31	36-1175		Flowing	Total Nitrogen	mg/L	0.69	
JOB6.23	W1861	7/22/08	8:31	36-1175		Flowing	Total Phosphorus	mg/L	0.035	
JOB6.23	W1861	7/22/08	8:31	36-1175		Flowing	True Color	PCU	52	
JOB6.23	W1861	7/22/08	8:31	36-1175		Flowing	Turbidity	NTU	1.9	
JOB6.23	W1861	8/19/08	8:45	36-1348		Flowing	Ammonia-N	mg/L	<0.02	
JOB6.23	W1861	8/19/08	8:45	36-1348		Flowing	*E. coli*	CFU/100mL	70	
JOB6.23	W1861	8/19/08	8:45	36-1348		Flowing	Total Nitrogen	mg/L	0.47	
JOB6.23	W1861	8/19/08	8:45	36-1348		Flowing	Total Phosphorus	mg/L	0.027	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
JOB6.23	W1861	8/19/08	8:45	36-1348		Flowing	True Color	PCU	99	
JOB6.23	W1861	8/19/08	8:45	36-1348		Flowing	Turbidity	NTU	1.7	
JOB6.23	W1861	9/23/08	8:38	36-1539		Flowing	Ammonia-N	mg/L	<0.02	
JOB6.23	W1861	9/23/08	8:38	36-1539		Flowing	*E. coli*	CFU/100mL	<20	
JOB6.23	W1861	9/23/08	8:38	36-1539		Flowing	Total Nitrogen	mg/L	0.34	
JOB6.23	W1861	9/23/08	8:38	36-1539		Flowing	Total Phosphorus	mg/L	0.017	
JOB6.23	W1861	9/23/08	8:38	36-1539		Flowing	True Color	PCU	72	
JOB6.23	W1861	9/23/08	8:38	36-1539		Flowing	Turbidity	NTU	1.7	
KIB0.17	W1864	5/20/08	12:43	36-0744		Flowing	Ammonia-N	mg/L	<0.02	
KIB0.17	W1864	5/20/08	12:43	36-0744		Flowing	*E. coli*	CFU/100mL	2	
KIB0.17	W1864	5/20/08	12:43	36-0744		Flowing	Total Nitrogen	mg/L	0.24	
KIB0.17	W1864	5/20/08	12:43	36-0744		Flowing	Total Phosphorus	mg/L	0.012	
KIB0.17	W1864	5/20/08	12:43	36-0744		Flowing	True Color	PCU	32	
KIB0.17	W1864	5/20/08	12:43	36-0744		Flowing	Turbidity	NTU	1.1	
KIB0.17	W1864	6/17/08	12:29	36-0919		Flowing	Ammonia-N	mg/L	<0.02	
KIB0.17	W1864	6/17/08	12:29	36-0919		Flowing	*E. coli*	CFU/100mL	160	
KIB0.17	W1864	6/17/08	12:29	36-0919		Flowing	Total Nitrogen	mg/L	0.42	
KIB0.17	W1864	6/17/08	12:29	36-0919		Flowing	Total Phosphorus	mg/L	0.025	
KIB0.17	W1864	6/17/08	12:29	36-0919		Flowing	True Color	PCU	55	
KIB0.17	W1864	6/17/08	12:29	36-0919		Flowing	Turbidity	NTU	2.7	
KIB0.17	W1864	7/9/08	11:00	36-1008		Flowing	*E. coli*	CFU/100mL	10	
KIB0.17	W1864	7/22/08	11:55	36-1174		Flowing	Ammonia-N	mg/L	<0.02	
KIB0.17	W1864	7/22/08	11:55	36-1174		Flowing	*E. coli*	CFU/100mL	40	
KIB0.17	W1864	7/22/08	11:55	36-1174		Flowing	Total Nitrogen	mg/L	0.36	
KIB0.17	W1864	7/22/08	11:55	36-1174		Flowing	Total Phosphorus	mg/L	0.019	
KIB0.17	W1864	7/22/08	11:55	36-1174		Flowing	True Color	PCU	23	
KIB0.17	W1864	7/22/08	11:55	36-1174		Flowing	Turbidity	NTU	2.4	
KIB0.17	W1864	8/19/08	11:59	36-1347		Flowing	Ammonia-N	mg/L	<0.02	
KIB0.17	W1864	8/19/08	11:59	36-1347		Flowing	*E. coli*	CFU/100mL	380	
KIB0.17	W1864	8/19/08	11:59	36-1347		Flowing	Hardness	mg/L	<20	
KIB0.17	W1864	8/19/08	11:59	36-1347		Flowing	Total Nitrogen	mg/L	0.35	
KIB0.17	W1864	8/19/08	11:59	36-1347		Flowing	Total Phosphorus	mg/L	0.023	
KIB0.17	W1864	8/19/08	11:59	36-1347		Flowing	True Color	PCU	46	
KIB0.17	W1864	8/19/08	11:59	36-1347		Flowing	Turbidity	NTU	4	
KIB0.17	W1864	9/23/08	12:05	36-1538		Flowing	Ammonia-N	mg/L	<0.02	
KIB0.17	W1864	9/23/08	12:05	36-1538		Flowing	*E. coli*	CFU/100mL	20	
KIB0.17	W1864	9/23/08	12:05	36-1538		Flowing	Total Nitrogen	mg/L	0.25	
KIB0.17	W1864	9/23/08	12:05	36-1538		Flowing	Total Phosphorus	mg/L	0.016	
KIB0.17	W1864	9/23/08	12:05	36-1538		Flowing	True Color	PCU	36	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
KIB0.17	W1864	9/23/08	12:05	36-1538		Flowing	Turbidity	NTU	1.9	
MB2.28	W1851	5/20/08	10:57	36-0754		Flowing	Ammonia-N	mg/L	<0.02	
MB2.28	W1851	5/20/08	10:57	36-0754		Flowing	*E. coli*	CFU/100mL	12	
MB2.28	W1851	5/20/08	10:57	36-0754		Flowing	Total Nitrogen	mg/L	0.36	
MB2.28	W1851	5/20/08	10:57	36-0754		Flowing	Total Phosphorus	mg/L	0.03	
MB2.28	W1851	5/20/08	10:57	36-0754		Flowing	True Color	PCU	55	
MB2.28	W1851	5/20/08	10:57	36-0754		Flowing	Turbidity	NTU	1.8	
MB2.28	W1851	6/17/08	11:08	36-0929		Flowing	Ammonia-N	mg/L	<0.02	
MB2.28	W1851	6/17/08	11:08	36-0929		Flowing	*E. coli*	CFU/100mL	60	
MB2.28	W1851	6/17/08	11:08	36-0929		Flowing	Total Nitrogen	mg/L	0.61	
MB2.28	W1851	6/17/08	11:08	36-0929		Flowing	Total Phosphorus	mg/L	0.064	
MB2.28	W1851	6/17/08	11:08	36-0929		Flowing	True Color	PCU	88	
MB2.28	W1851	6/17/08	11:08	36-0929		Flowing	Turbidity	NTU	2.9	
MB2.28	W1851	7/9/08	10:45	36-1018		**	*E. coli*	CFU/100mL	10	
MB2.28	W1851	7/22/08	11:20	36-1184		Flowing	Ammonia-N	mg/L	0.04	
MB2.28	W1851	7/22/08	11:20	36-1184		Flowing	*E. coli*	CFU/100mL	40	
MB2.28	W1851	7/22/08	11:20	36-1184		Flowing	Hardness	mg/L	<20	
MB2.28	W1851	7/22/08	11:20	36-1184		Flowing	Total Nitrogen	mg/L	0.68	
MB2.28	W1851	7/22/08	11:20	36-1184		Flowing	Total Phosphorus	mg/L	0.061	
MB2.28	W1851	7/22/08	11:20	36-1184		Flowing	True Color	PCU	72	
MB2.28	W1851	7/22/08	11:20	36-1184		Flowing	Turbidity	NTU	2.5	
MB2.28	W1851	8/19/08	11:15	36-1357		Flowing	Ammonia-N	mg/L	<0.02	
MB2.28	W1851	8/19/08	11:15	36-1357		Flowing	*E. coli*	CFU/100mL	140	
MB2.28	W1851	8/19/08	11:15	36-1357		Flowing	Total Nitrogen	mg/L	0.51	
MB2.28	W1851	8/19/08	11:15	36-1357		Flowing	Total Phosphorus	mg/L	0.036	
MB2.28	W1851	8/19/08	11:15	36-1357		Flowing	True Color	PCU	80	
MB2.28	W1851	8/19/08	11:15	36-1357		Flowing	Turbidity	NTU	1.7	
MB2.28	W1851	9/23/08	10:51	36-1478		Flowing	Ammonia-N	mg/L	<0.02	
MB2.28	W1851	9/23/08	10:51	36-1478		Flowing	*E. coli*	CFU/100mL	<20	
MB2.28	W1851	9/23/08	10:51	36-1478		Flowing	Total Nitrogen	mg/L	0.44	
MB2.28	W1851	9/23/08	10:51	36-1478		Flowing	Total Phosphorus	mg/L	0.029	
MB2.28	W1851	9/23/08	10:51	36-1478		Flowing	True Color	PCU	93	
MB2.28	W1851	9/23/08	10:51	36-1478		Flowing	Turbidity	NTU	1.3	
MUB0.20	W1687	5/20/08	9:16	36-0775		Flowing	Ammonia-N	mg/L	<0.02	
MUB0.20	W1687	5/20/08	9:16	36-0775		Flowing	*E. coli*	CFU/100mL	64	h
MUB0.20	W1687	5/20/08	9:16	36-0775		Flowing	Total Nitrogen	mg/L	0.38	
MUB0.20	W1687	5/20/08	9:16	36-0775		Flowing	Total Phosphorus	mg/L	0.013	
MUB0.20	W1687	5/20/08	9:16	36-0775		Flowing	True Color	PCU	40	
MUB0.20	W1687	5/20/08	9:16	36-0775		Flowing	Turbidity	NTU	1.5	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
MUB0.20	W1687	6/17/08	9:08	36-0950		Flowing	Ammonia-N	mg/L	0.1	
MUB0.20	W1687	6/17/08	9:08	36-0950		Flowing	*E. coli*	CFU/100mL	300	h
MUB0.20	W1687	6/17/08	9:08	36-0950		Flowing	Total Nitrogen	mg/L	0.74	
MUB0.20	W1687	6/17/08	9:08	36-0950		Flowing	Total Phosphorus	mg/L	0.021	
MUB0.20	W1687	6/17/08	9:08	36-0950		Flowing	True Color	PCU	38	
MUB0.20	W1687	6/17/08	9:08	36-0950		Flowing	Turbidity	NTU	1.7	
MUB0.20	W1687	7/9/08	9:13	36-1039		Flowing	*E. coli*	CFU/100mL	120	
MUB0.20	W1687	7/22/08	9:10	36-1205		Flowing	Ammonia-N	mg/L	0.05	
MUB0.20	W1687	7/22/08	9:10	36-1205		Flowing	*E. coli*	CFU/100mL	100	
MUB0.20	W1687	7/22/08	9:10	36-1205		Flowing	Total Nitrogen	mg/L	0.48	
MUB0.20	W1687	7/22/08	9:10	36-1205		Flowing	Total Phosphorus	mg/L	0.019	
MUB0.20	W1687	7/22/08	9:10	36-1205		Flowing	True Color	PCU	26	
MUB0.20	W1687	7/22/08	9:10	36-1205		Flowing	Turbidity	NTU	1.6	
MUB0.20	W1687	8/19/08	9:02	36-1378		Flowing	Ammonia-N	mg/L	0.02	
MUB0.20	W1687	8/19/08	9:02	36-1378		Flowing	*E. coli*	CFU/100mL	420	
MUB0.20	W1687	8/19/08	9:02	36-1378		Flowing	Total Nitrogen	mg/L	0.52	
MUB0.20	W1687	8/19/08	9:02	36-1378		Flowing	Total Phosphorus	mg/L	0.016	
MUB0.20	W1687	8/19/08	9:02	36-1378		Flowing	True Color	PCU	52	
MUB0.20	W1687	8/19/08	9:02	36-1378		Flowing	Turbidity	NTU	1.8	
MUB0.20	W1687	9/23/08	9:20	36-1499		Flowing	Ammonia-N	mg/L	0.03	
MUB0.20	W1687	9/23/08	9:20	36-1499		Flowing	*E. coli*	CFU/100mL	20	
MUB0.20	W1687	9/23/08	9:20	36-1499		Flowing	Total Nitrogen	mg/L	0.52	
MUB0.20	W1687	9/23/08	9:20	36-1499		Flowing	Total Phosphorus	mg/L	0.017	
MUB0.20	W1687	9/23/08	9:20	36-1499		Flowing	True Color	PCU	56	
MUB0.20	W1687	9/23/08	9:20	36-1499		Flowing	Turbidity	NTU	1.9	
POB1.42	W1865	5/20/08	11:58	36-0773		Flowing	Ammonia-N	mg/L	1.8	
POB1.42	W1865	5/20/08	11:58	36-0773		Flowing	*E. coli*	CFU/100mL	96	
POB1.42	W1865	5/20/08	11:58	36-0773		Flowing	Total Nitrogen	mg/L	2.6	
POB1.42	W1865	5/20/08	11:58	36-0773		Flowing	Total Phosphorus	mg/L	0.045	
POB1.42	W1865	5/20/08	11:58	36-0773		Flowing	True Color	PCU	<15	
POB1.42	W1865	5/20/08	11:58	36-0773		Flowing	Turbidity	NTU	10	
POB1.42	W1865	6/17/08	12:17	36-0948		Flowing	Ammonia-N	mg/L	1.1	
POB1.42	W1865	6/17/08	12:17	36-0948		Flowing	*E. coli*	CFU/100mL	>200	
POB1.42	W1865	6/17/08	12:17	36-0948		Flowing	Total Nitrogen	mg/L	1.9	
POB1.42	W1865	6/17/08	12:17	36-0948		Flowing	Total Phosphorus	mg/L	0.12	
POB1.42	W1865	6/17/08	12:17	36-0948		Flowing	True Color	PCU	99	
POB1.42	W1865	6/17/08	12:17	36-0948		Flowing	Turbidity	NTU	10	
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Aluminum - Dissolved	µg/L	<20	f

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Antimony - Dissolved	µg/L	<0.15	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Arsenic - Dissolved	µg/L	0.67	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Cadmium - Dissolved	µg/L	<0.13	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Calcium - Dissolved	mg/L	32	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Chromium - Dissolved	µg/L	0.58	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Copper - Dissolved	µg/L	1.4	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Hardness	mg/L as CaCO3	100	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Lead - Dissolved	µg/L	0.17	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Magnesium - Dissolved	mg/L	5.4	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Nickel - Dissolved	µg/L	2	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Selenium - Dissolved	µg/L	<2.6	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Silver - Dissolved	µg/L	<0.13	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Thallium - Dissolved	µg/L	<0.16	f
POB1.42	W1865	6/19/08	13:50	36-0976		Flowing	Zinc - Dissolved	µg/L	6	f
POB1.42	W1865	7/9/08	11:30	36-1037		Flowing	*E. coli*	CFU/100mL	120	
POB1.42	W1865	7/22/08	12:52	36-1203		Flowing	Ammonia-N	mg/L	2.1	
POB1.42	W1865	7/22/08	12:52	36-1203		Flowing	*E. coli*	CFU/100mL	110	
POB1.42	W1865	7/22/08	12:52	36-1203		Flowing	Hardness	mg/L	100	
POB1.42	W1865	7/22/08	12:52	36-1203		Flowing	Total Nitrogen	mg/L	2.3	
POB1.42	W1865	7/22/08	12:52	36-1203		Flowing	Total Phosphorus	mg/L	0.065	
POB1.42	W1865	7/22/08	12:52	36-1203		Flowing	True Color	PCU	18	
POB1.42	W1865	7/22/08	12:52	36-1203		Flowing	Turbidity	NTU	8.3	
POB1.42	W1865	8/19/08	11:54	36-1373		Flowing	Ammonia-N	mg/L	1.6	
POB1.42	W1865	8/19/08	11:54	36-1373		Flowing	*E. coli*	CFU/100mL	200	
POB1.42	W1865	8/19/08	11:54	36-1373		Flowing	Total Nitrogen	mg/L	2.7	
POB1.42	W1865	8/19/08	11:54	36-1373		Flowing	Total Phosphorus	mg/L	0.077	
POB1.42	W1865	8/19/08	11:54	36-1373		Flowing	True Color	PCU	23	
POB1.42	W1865	8/19/08	11:54	36-1373		Flowing	Turbidity	NTU	28.5	
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Aluminum - Dissolved	µg/L	<50	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Antimony - Dissolved	µg/L	0.34	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Arsenic - Dissolved	µg/L	0.56	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Beryllium - Dissolved	µg/L	<0.20	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Cadmium - Dissolved	µg/L	<0.13	f

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Calcium - Dissolved	mg/L	33	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Chromium - Dissolved	µg/L	1.3	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Copper - Dissolved	µg/L	1.2	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Hardness	mg/L as CaCO3	110	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Lead - Dissolved	µg/L	0.23	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Magnesium - Dissolved	mg/L	5.4	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Nickel - Dissolved	µg/L	2.7	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Selenium - Dissolved	µg/L	<2.6	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Silver - Dissolved	µg/L	<0.13	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Thallium - Dissolved	µg/L	<0.20	f
POB1.42	W1865	9/11/08	10:30	36-1059		Flowing	Zinc - Dissolved	µg/L	8.5	f
POB1.42	W1865	9/23/08	11:45	36-1497		Flowing	Ammonia-N	mg/L	2	
POB1.42	W1865	9/23/08	11:45	36-1497		Flowing	*E. coli*	CFU/100mL	120	
POB1.42	W1865	9/23/08	11:45	36-1497		Flowing	Total Nitrogen	mg/L	2.9	
POB1.42	W1865	9/23/08	11:45	36-1497		Flowing	Total Phosphorus	mg/L	0.053	
POB1.42	W1865	9/23/08	11:45	36-1497		Flowing	True Color	PCU	<15	
POB1.42	W1865	9/23/08	11:45	36-1497		Flowing	Turbidity	NTU	16.5	
PR2.48	W1850	5/20/08	9:48	36-0748	36-0749	Flowing	Ammonia-N	mg/L	0.02	
PR2.48	W1850	5/20/08	9:48	36-0748	36-0749	Flowing	*E. coli*	CFU/100mL	50	
PR2.48	W1850	5/20/08	9:48	36-0748	36-0749	Flowing	Total Nitrogen	mg/L	0.31	
PR2.48	W1850	5/20/08	9:48	36-0748	36-0749	Flowing	Total Phosphorus	mg/L	0.02	
PR2.48	W1850	5/20/08	9:48	36-0748	36-0749	Flowing	True Color	PCU	63	
PR2.48	W1850	5/20/08	9:48	36-0748	36-0749	Flowing	Turbidity	NTU	1.5	
PR2.48	W1850	6/17/08	9:48	36-0923	36-0924	Flowing	Ammonia-N	mg/L	0.03	
PR2.48	W1850	6/17/08	9:48	36-0923	36-0924	Flowing	*E. coli*	CFU/100mL	470	
PR2.48	W1850	6/17/08	9:48	36-0923	36-0924	Flowing	Total Nitrogen	mg/L	0.53	
PR2.48	W1850	6/17/08	9:48	36-0923	36-0924	Flowing	Total Phosphorus	mg/L	0.04	
PR2.48	W1850	6/17/08	9:48	36-0923	36-0924	Flowing	True Color	PCU	48	
PR2.48	W1850	6/17/08	9:48	36-0923	36-0924	Flowing	Turbidity	NTU	4.3	
PR2.48	W1850	7/9/08	9:45	36-1012	36-1013	**	*E. coli*	CFU/100mL	100	
PR2.48	W1850	7/22/08	9:50	36-1178	36-1179	Flowing	Ammonia-N	mg/L	0.03	
PR2.48	W1850	7/22/08	9:50	36-1178	36-1179	Flowing	*E. coli*	CFU/100mL	280	
PR2.48	W1850	7/22/08	9:50	36-1178	36-1179	Flowing	Hardness	mg/L	20	m
PR2.48	W1850	7/22/08	9:50	36-1178	36-1179	Flowing	Total Nitrogen	mg/L	0.59	
PR2.48	W1850	7/22/08	9:50	36-1178	36-1179	Flowing	Total Phosphorus	mg/L	0.047	
PR2.48	W1850	7/22/08	9:50	36-1178	36-1179	Flowing	True Color	PCU	59	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
PR2.48	W1850	7/22/08	9:50	36-1178	36-1179	Flowing	Turbidity	NTU	3.5	
PR2.48	W1850	8/19/08	10:05	36-1351	36-1352	Flowing	Ammonia-N	mg/L	0.03	d
PR2.48	W1850	8/19/08	10:05	36-1351	36-1352	Flowing	*E. coli*	CFU/100mL	>800	
PR2.48	W1850	8/19/08	10:05	36-1351	36-1352	Flowing	Total Nitrogen	mg/L	0.53	
PR2.48	W1850	8/19/08	10:05	36-1351	36-1352	Flowing	Total Phosphorus	mg/L	0.032	
PR2.48	W1850	8/19/08	10:05	36-1351	36-1352	Flowing	True Color	PCU	110	
PR2.48	W1850	8/19/08	10:05	36-1351	36-1352	Flowing	Turbidity	NTU	3	
PR2.48	W1850	9/23/08	9:43	36-1473	36-1542	Flowing	Ammonia-N	mg/L	<0.02	
PR2.48	W1850	9/23/08	9:43	36-1473	36-1542	Flowing	*E. coli*	CFU/100mL	50	
PR2.48	W1850	9/23/08	9:43	36-1473	36-1542	Flowing	Total Nitrogen	mg/L	0.4	
PR2.48	W1850	9/23/08	9:43	36-1473	36-1542	Flowing	Total Phosphorus	mg/L	0.026	
PR2.48	W1850	9/23/08	9:43	36-1473	36-1542	Flowing	True Color	PCU	64	
PR2.48	W1850	9/23/08	9:43	36-1473	36-1542	Flowing	Turbidity	NTU	2.6	d
QA06A	W1011	5/20/08	12:07	36-0742		Flowing	Ammonia-N	mg/L	0.02	
QA06A	W1011	5/20/08	12:07	36-0742		Flowing	*E. coli*	CFU/100mL	22	
QA06A	W1011	5/20/08	12:07	36-0742		Flowing	Total Nitrogen	mg/L	0.39	
QA06A	W1011	5/20/08	12:07	36-0742		Flowing	Total Phosphorus	mg/L	0.031	
QA06A	W1011	5/20/08	12:07	36-0742		Flowing	True Color	PCU	36	
QA06A	W1011	5/20/08	12:07	36-0742		Flowing	Turbidity	NTU	3.4	
QA06A	W1011	6/17/08	11:32	36-0917		Flowing	Ammonia-N	mg/L	0.03	
QA06A	W1011	6/17/08	11:32	36-0917		Flowing	*E. coli*	CFU/100mL	720	
QA06A	W1011	6/17/08	11:32	36-0917		Flowing	Total Nitrogen	mg/L	0.49	
QA06A	W1011	6/17/08	11:32	36-0917		Flowing	Total Phosphorus	mg/L	0.037	
QA06A	W1011	6/17/08	11:32	36-0917		Flowing	True Color	PCU	56	
QA06A	W1011	6/17/08	11:32	36-0917		Flowing	Turbidity	NTU	2.7	
QA06A	W1011	7/9/08	10:41	36-1006		Flowing	*E. coli*	CFU/100mL	850	
QA06A	W1011	7/22/08	11:20	36-1172		Flowing	Ammonia-N	mg/L	0.02	
QA06A	W1011	7/22/08	11:20	36-1172		Flowing	*E. coli*	CFU/100mL	160	
QA06A	W1011	7/22/08	11:20	36-1172		Flowing	Total Nitrogen	mg/L	0.49	
QA06A	W1011	7/22/08	11:20	36-1172		Flowing	Total Phosphorus	mg/L	0.034	
QA06A	W1011	7/22/08	11:20	36-1172		Flowing	True Color	PCU	28	
QA06A	W1011	7/22/08	11:20	36-1172		Flowing	Turbidity	NTU	2.3	
QA06A	W1011	8/19/08	11:23	36-1345		Flowing	Ammonia-N	mg/L	0.03	
QA06A	W1011	8/19/08	11:23	36-1345		Flowing	*E. coli*	CFU/100mL	>800	
QA06A	W1011	8/19/08	11:23	36-1345		Flowing	Total Nitrogen	mg/L	0.56	
QA06A	W1011	8/19/08	11:23	36-1345		Flowing	Total Phosphorus	mg/L	0.049	
QA06A	W1011	8/19/08	11:23	36-1345		Flowing	True Color	PCU	62	
QA06A	W1011	8/19/08	11:23	36-1345		Flowing	Turbidity	NTU	4.1	
QA06A	W1011	9/23/08	11:20	36-1536		Flowing	Ammonia-N	mg/L	0.04	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
QA06A	W1011	9/23/08	11:20	36-1536		Flowing	*E. coli*	CFU/100mL	140	
QA06A	W1011	9/23/08	11:20	36-1536		Flowing	Total Nitrogen	mg/L	0.44	
QA06A	W1011	9/23/08	11:20	36-1536		Flowing	Total Phosphorus	mg/L	0.034	
QA06A	W1011	9/23/08	11:20	36-1536		Flowing	True Color	PCU	61	
QA06A	W1011	9/23/08	11:20	36-1536		Flowing	Turbidity	NTU	2.4	
QA09A	W1015	5/20/08	11:49	36-0784		Flowing	Ammonia-N	mg/L	<0.02	
QA09A	W1015	5/20/08	11:49	36-0784		Flowing	*E. coli*	CFU/100mL	64	
QA09A	W1015	5/20/08	11:49	36-0784		Flowing	Total Nitrogen	mg/L	0.47	
QA09A	W1015	5/20/08	11:49	36-0784		Flowing	Total Phosphorus	mg/L	0.037	
QA09A	W1015	5/20/08	11:49	36-0784		Flowing	True Color	PCU	32	
QA09A	W1015	5/20/08	11:49	36-0784		Flowing	Turbidity	NTU	3.6	
QA09A	W1015	6/17/08	11:32	36-0959		Flowing	Ammonia-N	mg/L	0.03	
QA09A	W1015	6/17/08	11:32	36-0959		Flowing	*E. coli*	CFU/100mL	>200	
QA09A	W1015	6/17/08	11:32	36-0959		Flowing	Total Nitrogen	mg/L	0.66	
QA09A	W1015	6/17/08	11:32	36-0959		Flowing	Total Phosphorus	mg/L	0.065	
QA09A	W1015	6/17/08	11:32	36-0959		Flowing	True Color	PCU	48	
QA09A	W1015	6/17/08	11:32	36-0959		Flowing	Turbidity	NTU	8.3	
QA09A	W1015	7/9/08	11:30	36-1048		Flowing	*E. coli*	CFU/100mL	250	
QA09A	W1015	7/22/08	11:46	36-1214		Flowing	Ammonia-N	mg/L	<0.02	
QA09A	W1015	7/22/08	11:46	36-1214		Flowing	*E. coli*	CFU/100mL	200	
QA09A	W1015	7/22/08	11:46	36-1214		Flowing	Total Nitrogen	mg/L	0.57	
QA09A	W1015	7/22/08	11:46	36-1214		Flowing	Total Phosphorus	mg/L	0.033	
QA09A	W1015	7/22/08	11:46	36-1214		Flowing	True Color	PCU	34	
QA09A	W1015	7/22/08	11:46	36-1214		Flowing	Turbidity	NTU	2.4	
QA09A	W1015	8/19/08	10:58	36-1387		Flowing	Ammonia-N	mg/L	<0.02	
QA09A	W1015	8/19/08	10:58	36-1387		Flowing	*E. coli*	CFU/100mL	830	
QA09A	W1015	8/19/08	11:01	36-1404		Flowing	*E. coli*	CFU/100mL	760	
QA09A	W1015	8/19/08	11:02	36-1405		Flowing	*E. coli*	CFU/100mL	>800	
QA09A	W1015	8/19/08	10:58	36-1387		Flowing	Total Nitrogen	mg/L	0.54	
QA09A	W1015	8/19/08	10:58	36-1387		Flowing	Total Phosphorus	mg/L	0.043	
QA09A	W1015	8/19/08	10:58	36-1387		Flowing	True Color	PCU	56	
QA09A	W1015	8/19/08	10:58	36-1387		Flowing	Turbidity	NTU	3.4	
QA09A	W1015	9/23/08	11:41	36-1509		Flowing	Ammonia-N	mg/L	0.02	
QA09A	W1015	9/23/08	11:41	36-1509		Flowing	*E. coli*	CFU/100mL	120	
QA09A	W1015	9/23/08	11:41	36-1509		Flowing	Total Nitrogen	mg/L	0.48	
QA09A	W1015	9/23/08	11:41	36-1509		Flowing	Total Phosphorus	mg/L	0.034	
QA09A	W1015	9/23/08	11:41	36-1509		Flowing	True Color	PCU	51	
QA09A	W1015	9/23/08	11:41	36-1509		Flowing	Turbidity	NTU	2.9	
QR0.08	W1875	5/20/08	11:30	36-0783		Flowing	Ammonia-N	mg/L	<0.02	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
QR0.08	W1875	5/20/08	11:30	36-0783		Flowing	*E. coli*	CFU/100mL	118	
QR0.08	W1875	5/20/08	11:30	36-0783		Flowing	Total Nitrogen	mg/L	0.45	
QR0.08	W1875	5/20/08	11:30	36-0783		Flowing	Total Phosphorus	mg/L	0.032	
QR0.08	W1875	5/20/08	11:30	36-0783		Flowing	True Color	PCU	38	
QR0.08	W1875	5/20/08	11:30	36-0783		Flowing	Turbidity	NTU	4.1	
QR0.08	W1875	6/17/08	11:13	36-0958		Flowing	Ammonia-N	mg/L	0.03	
QR0.08	W1875	6/17/08	11:13	36-0958		Flowing	*E. coli*	CFU/100mL	>200	
QR0.08	W1875	6/17/08	11:13	36-0958		Flowing	Total Nitrogen	mg/L	0.7	
QR0.08	W1875	6/17/08	11:13	36-0958		Flowing	Total Phosphorus	mg/L	0.069	
QR0.08	W1875	6/17/08	11:13	36-0958		Flowing	True Color	PCU	54	
QR0.08	W1875	6/17/08	11:13	36-0958		Flowing	Turbidity	NTU	12.5	
QR0.08	W1875	7/9/08	11:14	36-1047		Flowing	*E. coli*	CFU/100mL	240	
QR0.08	W1875	7/22/08	11:20	36-1213		Flowing	Ammonia-N	mg/L	<0.02	
QR0.08	W1875	7/22/08	11:20	36-1213		Flowing	*E. coli*	CFU/100mL	170	
QR0.08	W1875	7/22/08	11:20	36-1213		Flowing	Hardness	mg/L	30	
QR0.08	W1875	7/22/08	11:20	36-1213		Flowing	Total Nitrogen	mg/L	0.57	
QR0.08	W1875	7/22/08	11:20	36-1213		Flowing	Total Phosphorus	mg/L	0.033	
QR0.08	W1875	7/22/08	11:20	36-1213		Flowing	True Color	PCU	26	
QR0.08	W1875	7/22/08	11:20	36-1213		Flowing	Turbidity	NTU	2.5	
QR0.08	W1875	8/19/08	10:42	36-1386		Flowing	Ammonia-N	mg/L	<0.02	
QR0.08	W1875	8/19/08	10:42	36-1386		Flowing	*E. coli*	CFU/100mL	550	
QR0.08	W1875	8/19/08	10:42	36-1386		Flowing	Total Nitrogen	mg/L	0.55	
QR0.08	W1875	8/19/08	10:42	36-1386		Flowing	Total Phosphorus	mg/L	0.042	
QR0.08	W1875	8/19/08	10:42	36-1386		Flowing	True Color	PCU	52	
QR0.08	W1875	8/19/08	10:42	36-1386		Flowing	Turbidity	NTU	3.8	
QR0.08	W1875	9/23/08	11:27	36-1508		Flowing	Ammonia-N	mg/L	0.02	
QR0.08	W1875	9/23/08	11:27	36-1508		Flowing	*E. coli*	CFU/100mL	140	
QR0.08	W1875	9/23/08	11:27	36-1508		Flowing	Total Nitrogen	mg/L	0.48	
QR0.08	W1875	9/23/08	11:27	36-1508		Flowing	Total Phosphorus	mg/L	0.033	
QR0.08	W1875	9/23/08	11:27	36-1508		Flowing	True Color	PCU	46	
QR0.08	W1875	9/23/08	11:27	36-1508		Flowing	Turbidity	NTU	2.6	
QR11.88	W1868	5/20/08	12:25	36-0743		Flowing	Ammonia-N	mg/L	<0.02	
QR11.88	W1868	5/20/08	12:25	36-0743		Flowing	*E. coli*	CFU/100mL	36	
QR11.88	W1868	5/20/08	12:25	36-0743		Flowing	Total Nitrogen	mg/L	0.42	
QR11.88	W1868	5/20/08	12:25	36-0743		Flowing	Total Phosphorus	mg/L	0.038	
QR11.88	W1868	5/20/08	12:25	36-0743		Flowing	True Color	PCU	38	
QR11.88	W1868	5/20/08	12:25	36-0743		Flowing	Turbidity	NTU	3.4	
QR11.88	W1868	6/17/08	12:04	36-0918		Flowing	Ammonia-N	mg/L	0.02	
QR11.88	W1868	6/17/08	12:04	36-0918		Flowing	*E. coli*	CFU/100mL	260	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
QR11.88	W1868	6/17/08	12:04	36-0918		Flowing	Total Nitrogen	mg/L	0.52	
QR11.88	W1868	6/17/08	12:04	36-0918		Flowing	Total Phosphorus	mg/L	0.047	
QR11.88	W1868	6/17/08	12:04	36-0918		Flowing	True Color	PCU	58	
QR11.88	W1868	6/17/08	12:04	36-0918		Flowing	Turbidity	NTU	2.9	
QR11.88	W1868	7/9/08	10:50	36-1007		Flowing	*E. coli*	CFU/100mL	280	
QR11.88	W1868	7/22/08	11:40	36-1173		Flowing	Ammonia-N	mg/L	0.02	
QR11.88	W1868	7/22/08	11:40	36-1173		Flowing	*E. coli*	CFU/100mL	90	
QR11.88	W1868	7/22/08	11:40	36-1173		Flowing	Total Nitrogen	mg/L	0.55	
QR11.88	W1868	7/22/08	11:40	36-1173		Flowing	Total Phosphorus	mg/L	0.049	
QR11.88	W1868	7/22/08	11:40	36-1173		Flowing	True Color	PCU	26	
QR11.88	W1868	7/22/08	11:40	36-1173		Flowing	Turbidity	NTU	2.8	
QR11.88	W1868	8/19/08	11:37	36-1346		Flowing	Ammonia-N	mg/L	0.02	
QR11.88	W1868	8/19/08	11:37	36-1346		Flowing	*E. coli*	CFU/100mL	110	
QR11.88	W1868	8/19/08	11:37	36-1346		Flowing	Total Nitrogen	mg/L	0.56	
QR11.88	W1868	8/19/08	11:37	36-1346		Flowing	Total Phosphorus	mg/L	0.053	
QR11.88	W1868	8/19/08	11:37	36-1346		Flowing	True Color	PCU	60	
QR11.88	W1868	8/19/08	11:37	36-1346		Flowing	Turbidity	NTU	3.9	
QR11.88	W1868	9/23/08	11:45	36-1537		Flowing	Ammonia-N	mg/L	0.03	
QR11.88	W1868	9/23/08	11:45	36-1537		Flowing	*E. coli*	CFU/100mL	800	
QR11.88	W1868	9/23/08	11:45	36-1537		Flowing	Total Nitrogen	mg/L	0.46	
QR11.88	W1868	9/23/08	11:45	36-1537		Flowing	Total Phosphorus	mg/L	0.038	
QR11.88	W1868	9/23/08	11:45	36-1537		Flowing	True Color	PCU	58	
QR11.88	W1868	9/23/08	11:45	36-1537		Flowing	Turbidity	NTU	2.9	
QR19.87	W1995	5/20/08	11:39	36-0741		Flowing	Ammonia-N	mg/L	<0.02	
QR19.87	W1995	5/20/08	11:39	36-0741		Flowing	*E. coli*	CFU/100mL	10	
QR19.87	W1995	5/20/08	11:39	36-0741		Flowing	Total Nitrogen	mg/L	0.42	
QR19.87	W1995	5/20/08	11:39	36-0741		Flowing	Total Phosphorus	mg/L	0.033	
QR19.87	W1995	5/20/08	11:39	36-0741		Flowing	True Color	PCU	41	
QR19.87	W1995	5/20/08	11:39	36-0741		Flowing	Turbidity	NTU	3.9	
QR19.87	W1995	6/17/08	10:56	36-0916		Flowing	Ammonia-N	mg/L	0.03	
QR19.87	W1995	6/17/08	10:56	36-0916		Flowing	*E. coli*	CFU/100mL	60	
QR19.87	W1995	6/17/08	10:56	36-0916		Flowing	Total Nitrogen	mg/L	0.51	
QR19.87	W1995	6/17/08	10:56	36-0916		Flowing	Total Phosphorus	mg/L	0.034	
QR19.87	W1995	6/17/08	10:56	36-0916		Flowing	True Color	PCU	74	
QR19.87	W1995	6/17/08	10:56	36-0916		Flowing	Turbidity	NTU	2.5	
QR19.87	W1995	7/9/08	10:24	36-1005		**	*E. coli*	CFU/100mL	20	
QR19.87	W1995	7/22/08	10:55	36-1171		Flowing	Ammonia-N	mg/L	0.06	
QR19.87	W1995	7/22/08	10:55	36-1171		Flowing	*E. coli*	CFU/100mL	<10	
QR19.87	W1995	7/22/08	10:55	36-1171		Flowing	Hardness	mg/L	26	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
QR19.87	W1995	7/22/08	10:55	36-1171		Flowing	Total Nitrogen	mg/L	0.63	
QR19.87	W1995	7/22/08	10:55	36-1171		Flowing	Total Phosphorus	mg/L	0.041	
QR19.87	W1995	7/22/08	10:55	36-1171		Flowing	True Color	PCU	37	
QR19.87	W1995	7/22/08	10:55	36-1171		Flowing	Turbidity	NTU	2	
QR19.87	W1995	8/19/08	10:40	36-1344		Flowing	Ammonia-N	mg/L	<0.02	
QR19.87	W1995	8/19/08	10:40	36-1344		Flowing	*E. coli*	CFU/100mL	150	
QR19.87	W1995	8/19/08	10:40	36-1344		Flowing	Total Nitrogen	mg/L	0.58	
QR19.87	W1995	8/19/08	10:40	36-1344		Flowing	Total Phosphorus	mg/L	0.056	
QR19.87	W1995	8/19/08	10:40	36-1344		Flowing	True Color	PCU	67	
QR19.87	W1995	8/19/08	10:40	36-1344		Flowing	Turbidity	NTU	3.6	
QR19.87	W1995	9/23/08	10:50	36-1535		Flowing	Ammonia-N	mg/L	0.03	
QR19.87	W1995	9/23/08	10:50	36-1535		Flowing	*E. coli*	CFU/100mL	40	
QR19.87	W1995	9/23/08	10:50	36-1535		Flowing	Total Nitrogen	mg/L	0.45	
QR19.87	W1995	9/23/08	10:50	36-1535		Flowing	Total Phosphorus	mg/L	0.036	
QR19.87	W1995	9/23/08	10:50	36-1535		Flowing	True Color	PCU	59	
QR19.87	W1995	9/23/08	10:50	36-1535		Flowing	Turbidity	NTU	2.2	
SM01	W1036	5/20/08	9:35	36-0735		Flowing	Ammonia-N	mg/L	0.03	
SM01	W1036	5/20/08	9:35	36-0735		Flowing	*E. coli*	CFU/100mL	52	
SM01	W1036	5/20/08	9:35	36-0735		Flowing	Total Nitrogen	mg/L	0.34	
SM01	W1036	5/20/08	9:35	36-0735		Flowing	Total Phosphorus	mg/L	0.023	
SM01	W1036	5/20/08	9:35	36-0735		Flowing	True Color	PCU	34	
SM01	W1036	5/20/08	9:35	36-0735		Flowing	Turbidity	NTU	3.4	
SM01	W1036	6/17/08	9:12	36-0910		Flowing	Ammonia-N	mg/L	0.07	
SM01	W1036	6/17/08	9:12	36-0910		Flowing	*E. coli*	CFU/100mL	1360	h
SM01	W1036	6/17/08	9:12	36-0910		Flowing	Total Nitrogen	mg/L	0.57	
SM01	W1036	6/17/08	9:12	36-0910		Flowing	Total Phosphorus	mg/L	0.042	
SM01	W1036	6/17/08	9:12	36-0910		Flowing	True Color	PCU	31	
SM01	W1036	6/17/08	9:12	36-0910		Flowing	Turbidity	NTU	8.5	
SM01	W1036	7/9/08	8:54	36-0999		Flowing	*E. coli*	CFU/100mL	200	
SM01	W1036	7/22/08	9:03	36-1165		Flowing	Ammonia-N	mg/L	0.04	
SM01	W1036	7/22/08	9:03	36-1165		Flowing	*E. coli*	CFU/100mL	460	
SM01	W1036	7/22/08	9:03	36-1165		Flowing	Total Nitrogen	mg/L	0.49	
SM01	W1036	7/22/08	9:03	36-1165		Flowing	Total Phosphorus	mg/L	0.03	
SM01	W1036	7/22/08	9:03	36-1165		Flowing	True Color	PCU	25	
SM01	W1036	7/22/08	9:03	36-1165		Flowing	Turbidity	NTU	5.2	
SM01	W1036	8/19/08	9:23	36-1338		Flowing	Ammonia-N	mg/L	0.03	
SM01	W1036	8/19/08	9:23	36-1338		Flowing	*E. coli*	CFU/100mL	480	
SM01	W1036	8/19/08	9:23	36-1338		Flowing	Total Nitrogen	mg/L	0.52	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
SM01	W1036	8/19/08	9:23	36-1338		Flowing	Total Phosphorus	mg/L	0.028	
SM01	W1036	8/19/08	9:23	36-1338		Flowing	True Color	PCU	53	
SM01	W1036	8/19/08	9:23	36-1338		Flowing	Turbidity	NTU	4.3	
SM01	W1036	9/23/08	9:30	36-1529		Flowing	Ammonia-N	mg/L	0.03	
SM01	W1036	9/23/08	9:30	36-1529		Flowing	*E. coli*	CFU/100mL	100	
SM01	W1036	9/23/08	9:30	36-1529		Flowing	Total Nitrogen	mg/L	0.43	
SM01	W1036	9/23/08	9:30	36-1529		Flowing	Total Phosphorus	mg/L	0.02	
SM01	W1036	9/23/08	9:30	36-1529		Flowing	True Color	PCU	44	
SM01	W1036	9/23/08	9:30	36-1529		Flowing	Turbidity	NTU	3.1	
SM29.2	W1870	5/20/08	10:00	36-0736		Flowing	Ammonia-N	mg/L	0.03	
SM29.2	W1870	5/20/08	10:00	36-0736		Flowing	*E. coli*	CFU/100mL	40	
SM29.2	W1870	5/20/08	10:00	36-0736		Flowing	Total Nitrogen	mg/L	0.44	
SM29.2	W1870	5/20/08	10:00	36-0736		Flowing	Total Phosphorus	mg/L	0.027	
SM29.2	W1870	5/20/08	10:00	36-0736		Flowing	True Color	PCU	33	
SM29.2	W1870	5/20/08	10:00	36-0736		Flowing	Turbidity	NTU	3	
SM29.2	W1870	6/17/08	9:29	36-0911		Flowing	Ammonia-N	mg/L	0.09	
SM29.2	W1870	6/17/08	9:29	36-0911		Flowing	*E. coli*	CFU/100mL	1440	h
SM29.2	W1870	6/17/08	9:29	36-0911		Flowing	Total Nitrogen	mg/L	0.96	
SM29.2	W1870	6/17/08	9:29	36-0911		Flowing	Total Phosphorus	mg/L	0.047	
SM29.2	W1870	6/17/08	9:29	36-0911		Flowing	True Color	PCU	45	
SM29.2	W1870	6/17/08	9:29	36-0911		Flowing	Turbidity	NTU	5.8	
SM29.2	W1870	7/9/08	9:14	36-1000		Flowing	*E. coli*	CFU/100mL	140	
SM29.2	W1870	7/22/08	9:15	36-1166		Flowing	Ammonia-N	mg/L	0.03	
SM29.2	W1870	7/22/08	9:15	36-1166		Flowing	*E. coli*	CFU/100mL	240	
SM29.2	W1870	7/22/08	9:15	36-1166		Flowing	Hardness	mg/L	32	
SM29.2	W1870	7/22/08	9:15	36-1166		Flowing	Total Nitrogen	mg/L	0.68	
SM29.2	W1870	7/22/08	9:15	36-1166		Flowing	Total Phosphorus	mg/L	0.029	
SM29.2	W1870	7/22/08	9:15	36-1166		Flowing	True Color	PCU	25	
SM29.2	W1870	7/22/08	9:15	36-1166		Flowing	Turbidity	NTU	4.5	
SM29.2	W1870	8/19/08	9:37	36-1339		Flowing	Ammonia-N	mg/L	0.02	
SM29.2	W1870	8/19/08	9:37	36-1339		Flowing	*E. coli*	CFU/100mL	>800	
SM29.2	W1870	8/19/08	9:37	36-1339		Flowing	Total Nitrogen	mg/L	0.65	
SM29.2	W1870	8/19/08	9:37	36-1339		Flowing	Total Phosphorus	mg/L	0.029	
SM29.2	W1870	8/19/08	9:37	36-1339		Flowing	True Color	PCU	51	
SM29.2	W1870	8/19/08	9:37	36-1339		Flowing	Turbidity	NTU	3.8	
SM29.2	W1870	9/23/08	9:45	36-1530		Flowing	Ammonia-N	mg/L	0.02	
SM29.2	W1870	9/23/08	9:45	36-1530		Flowing	*E. coli*	CFU/100mL	50	
SM29.2	W1870	9/23/08	9:45	36-1530		Flowing	Total Nitrogen	mg/L	0.63	
SM29.2	W1870	9/23/08	9:45	36-1530		Flowing	Total	mg/L	0.019	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
							Phosphorus			
SM29.2	W1870	9/23/08	9:45	36-1530		Flowing	True Color	PCU	38	
SM29.2	W1870	9/23/08	9:45	36-1530		Flowing	Turbidity	NTU	3.2	
SM32.6	W1876	5/20/08	8:57	36-0734		Flowing	Ammonia-N	mg/L	0.02	
SM32.6	W1876	5/20/08	8:57	36-0734		Flowing	*E. coli*	CFU/100mL	102	h
SM32.6	W1876	5/20/08	8:57	36-0734		Flowing	Total Nitrogen	mg/L	0.31	
SM32.6	W1876	5/20/08	8:57	36-0734		Flowing	Total Phosphorus	mg/L	0.013	
SM32.6	W1876	5/20/08	8:57	36-0734		Flowing	True Color	PCU	28	
SM32.6	W1876	5/20/08	8:57	36-0734		Flowing	Turbidity	NTU	1.9	
SM32.6	W1876	6/17/08	8:43	36-0909		Flowing	Ammonia-N	mg/L	0.03	
SM32.6	W1876	6/17/08	8:43	36-0909		Flowing	*E. coli*	CFU/100mL	840	h
SM32.6	W1876	6/17/08	8:43	36-0909		Flowing	Total Nitrogen	mg/L	0.49	
SM32.6	W1876	6/17/08	8:43	36-0909		Flowing	Total Phosphorus	mg/L	0.026	
SM32.6	W1876	6/17/08	8:43	36-0909		Flowing	True Color	PCU	43	
SM32.6	W1876	6/17/08	8:43	36-0909		Flowing	Turbidity	NTU	3.6	
SM32.6	W1876	7/9/08	8:36	36-0998		Flowing	*E. coli*	CFU/100mL	90	
SM32.6	W1876	7/22/08	8:45	36-1164		Flowing	Ammonia-N	mg/L	0.04	
SM32.6	W1876	7/22/08	8:45	36-1164		Flowing	*E. coli*	CFU/100mL	940	
SM32.6	W1876	7/22/08	8:45	36-1164		Flowing	Total Nitrogen	mg/L	0.45	
SM32.6	W1876	7/22/08	8:45	36-1164		Flowing	Total Phosphorus	mg/L	0.033	
SM32.6	W1876	7/22/08	8:45	36-1164		Flowing	True Color	PCU	29	
SM32.6	W1876	7/22/08	8:45	36-1164		Flowing	Turbidity	NTU	8.5	
SM32.6	W1876	8/19/08	9:05	36-1337		Flowing	Ammonia-N	mg/L	0.02	
SM32.6	W1876	8/19/08	9:05	36-1337		Flowing	*E. coli*	CFU/100mL	280	
SM32.6	W1876	8/19/08	9:05	36-1337		Flowing	Total Nitrogen	mg/L	0.48	
SM32.6	W1876	8/19/08	9:05	36-1337		Flowing	Total Phosphorus	mg/L	0.016	
SM32.6	W1876	8/19/08	9:05	36-1337		Flowing	True Color	PCU	49	
SM32.6	W1876	8/19/08	9:05	36-1337		Flowing	Turbidity	NTU	2.4	
SM32.6	W1876	9/23/08	9:10	36-1528		Flowing	Ammonia-N	mg/L	0.02	
SM32.6	W1876	9/23/08	9:10	36-1528		Flowing	*E. coli*	CFU/100mL	140	
SM32.6	W1876	9/23/08	9:10	36-1528		Flowing	Total Nitrogen	mg/L	0.39	
SM32.6	W1876	9/23/08	9:10	36-1528		Flowing	Total Phosphorus	mg/L	0.013	
SM32.6	W1876	9/23/08	9:10	36-1528		Flowing	True Color	PCU	42	
SM32.6	W1876	9/23/08	9:10	36-1528		Flowing	Turbidity	NTU	1.9	
SR02	W1013	5/20/08	10:54	36-0779		Flowing	Ammonia-N	mg/L	<0.02	
SR02	W1013	5/20/08	10:54	36-0779		Flowing	*E. coli*	CFU/100mL	8	
SR02	W1013	5/20/08	10:54	36-0779		Flowing	Total Nitrogen	mg/L	0.15	
SR02	W1013	5/20/08	10:54	36-0779		Flowing	Total Phosphorus	mg/L	0.006	
SR02	W1013	5/20/08	10:54	36-0779		Flowing	True Color	PCU	<15	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
SR02	W1013	5/20/08	10:54	36-0779		Flowing	Turbidity	NTU	0.8	
SR02	W1013	6/17/08	10:34	36-0954		Flowing	Ammonia-N	mg/L	<0.02	
SR02	W1013	6/17/08	10:34	36-0954		Flowing	*E. coli*	CFU/100mL	140	
SR02	W1013	6/17/08	10:34	36-0954		Flowing	Total Nitrogen	mg/L	0.18	
SR02	W1013	6/17/08	10:34	36-0954		Flowing	Total Phosphorus	mg/L	0.01	
SR02	W1013	6/17/08	10:34	36-0954		Flowing	True Color	PCU	<15	
SR02	W1013	6/17/08	10:34	36-0954		Flowing	Turbidity	NTU	1.2	
SR02	W1013	7/9/08	10:45	36-1043		Flowing	*E. coli*	CFU/100mL	20	
SR02	W1013	7/22/08	10:45	36-1209		Flowing	Ammonia-N	mg/L	<0.02	
SR02	W1013	7/22/08	10:45	36-1209		Flowing	*E. coli*	CFU/100mL	40	
SR02	W1013	7/22/08	10:45	36-1209		Flowing	Total Nitrogen	mg/L	0.15	
SR02	W1013	7/22/08	10:45	36-1209		Flowing	Total Phosphorus	mg/L	0.01	
SR02	W1013	7/22/08	10:45	36-1209		Flowing	True Color	PCU	<15	
SR02	W1013	7/22/08	10:45	36-1209		Flowing	Turbidity	NTU	0.7	
SR02	W1013	8/19/08	10:10	36-1382		Flowing	Ammonia-N	mg/L	<0.02	
SR02	W1013	8/19/08	10:10	36-1382		Flowing	*E. coli*	CFU/100mL	10	
SR02	W1013	8/19/08	10:10	36-1382		Flowing	Total Nitrogen	mg/L	0.14	
SR02	W1013	8/19/08	10:10	36-1382		Flowing	Total Phosphorus	mg/L	0.007	
SR02	W1013	8/19/08	10:10	36-1382		Flowing	True Color	PCU	<15	
SR02	W1013	8/19/08	10:10	36-1382		Flowing	Turbidity	NTU	0.6	
SR02	W1013	9/23/08	10:50	36-1504		Flowing	Ammonia-N	mg/L	<0.02	
SR02	W1013	9/23/08	10:50	36-1504		Flowing	*E. coli*	CFU/100mL	<20	
SR02	W1013	9/23/08	10:50	36-1504		Flowing	Total Nitrogen	mg/L	0.14	
SR02	W1013	9/23/08	10:50	36-1504		Flowing	Total Phosphorus	mg/L	0.01	
SR02	W1013	9/23/08	10:50	36-1504		Flowing	True Color	PCU	<15	
SR02	W1013	9/23/08	10:50	36-1504		Flowing	Turbidity	NTU	0.7	
SR03	W1012	5/20/08	10:30	36-0778		Flowing	Ammonia-N	mg/L	<0.02	
SR03	W1012	5/20/08	10:30	36-0778		Flowing	*E. coli*	CFU/100mL	6	
SR03	W1012	5/20/08	10:30	36-0778		Flowing	Total Nitrogen	mg/L	0.14	
SR03	W1012	5/20/08	10:30	36-0778		Flowing	Total Phosphorus	mg/L	0.005	
SR03	W1012	5/20/08	10:30	36-0778		Flowing	True Color	PCU	<15	
SR03	W1012	5/20/08	10:30	36-0778		Flowing	Turbidity	NTU	0.6	
SR03	W1012	6/17/08	10:08	36-0953		Flowing	Ammonia-N	mg/L	<0.02	
SR03	W1012	6/17/08	10:08	36-0953		Flowing	*E. coli*	CFU/100mL	40	
SR03	W1012	6/17/08	10:08	36-0953		Flowing	Total Nitrogen	mg/L	0.16	
SR03	W1012	6/17/08	10:08	36-0953		Flowing	Total Phosphorus	mg/L	0.009	
SR03	W1012	6/17/08	10:08	36-0953		Flowing	True Color	PCU	<15	
SR03	W1012	6/17/08	10:08	36-0953		Flowing	Turbidity	NTU	0.5	
SR03	W1012	7/9/08	10:19	36-1042		Flowing	*E. coli*	CFU/100mL	20	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
SR03	W1012	7/22/08	10:25	36-1208		Flowing	Ammonia-N	mg/L	0.02	
SR03	W1012	7/22/08	10:25	36-1208		Flowing	*E. coli*	CFU/100mL	<10	
SR03	W1012	7/22/08	10:25	36-1208		Flowing	Total Nitrogen	mg/L	0.18	
SR03	W1012	7/22/08	10:25	36-1208		Flowing	Total Phosphorus	mg/L	0.007	
SR03	W1012	7/22/08	10:25	36-1208		Flowing	True Color	PCU	<15	
SR03	W1012	7/22/08	10:25	36-1208		Flowing	Turbidity	NTU	0.8	
SR03	W1012	8/19/08	9:55	36-1381		Flowing	Ammonia-N	mg/L	<0.02	
SR03	W1012	8/19/08	9:55	36-1381		Flowing	*E. coli*	CFU/100mL	120	
SR03	W1012	8/19/08	9:55	36-1381		Flowing	Hardness	mg/L	<20	
SR03	W1012	8/19/08	9:55	36-1381		Flowing	Total Nitrogen	mg/L	0.17	
SR03	W1012	8/19/08	9:55	36-1381		Flowing	Total Phosphorus	mg/L	0.005	
SR03	W1012	8/19/08	9:55	36-1381		Flowing	True Color	PCU	<15	
SR03	W1012	8/19/08	9:55	36-1381		Flowing	Turbidity	NTU	0.6	
SR03	W1012	9/23/08	10:18	36-1503		Flowing	Ammonia-N	mg/L	0.02	
SR03	W1012	9/23/08	10:18	36-1503		Flowing	*E. coli*	CFU/100mL	20	
SR03	W1012	9/23/08	10:18	36-1503		Flowing	Total Nitrogen	mg/L	0.16	
SR03	W1012	9/23/08	10:18	36-1503		Flowing	Total Phosphorus	mg/L	0.01	
SR03	W1012	9/23/08	10:18	36-1503		Flowing	True Color	PCU	<15	
SR03	W1012	9/23/08	10:18	36-1503		Flowing	Turbidity	NTU	0.9	
TUB33.95	W1856	5/20/08	8:40	36-0731	36-0732	Flowing	Ammonia-N	mg/L	<0.02	
TUB33.95	W1856	5/20/08	8:40	36-0731	36-0732	Flowing	*E. coli*	CFU/100mL	20	h
TUB33.95	W1856	5/20/08	8:40	36-0731	36-0732	Flowing	Total Nitrogen	mg/L	0.31	
TUB33.95	W1856	5/20/08	8:40	36-0731	36-0732	Flowing	Total Phosphorus	mg/L	0.011	
TUB33.95	W1856	5/20/08	8:40	36-0731	36-0732	Flowing	True Color	PCU	37	
TUB33.95	W1856	5/20/08	8:40	36-0731	36-0732	Flowing	Turbidity	NTU	1.5	
TUB33.95	W1856	6/17/08	8:20	36-0906	36-0907	Flowing	Ammonia-N	mg/L	0.02	
TUB33.95	W1856	6/17/08	8:20	36-0906	36-0907	Flowing	*E. coli*	CFU/100mL	240	h
TUB33.95	W1856	6/17/08	8:20	36-0906	36-0907	Flowing	Total Nitrogen	mg/L	0.4	
TUB33.95	W1856	6/17/08	8:20	36-0906	36-0907	Flowing	Total Phosphorus	mg/L	0.018	
TUB33.95	W1856	6/17/08	8:20	36-0906	36-0907	Flowing	True Color	PCU	35	
TUB33.95	W1856	6/17/08	8:20	36-0906	36-0907	Flowing	Turbidity	NTU	1.5	d
TUB33.95	W1856	7/9/08	8:25	36-0995	36-0996	Flowing	*E. coli*	CFU/100mL	10	h
TUB33.95	W1856	7/22/08	8:25	36-1161	36-1162	Flowing	Ammonia-N	mg/L	0.02	d
TUB33.95	W1856	7/22/08	8:25	36-1161	36-1162	Flowing	*E. coli*	CFU/100mL	80	
TUB33.95	W1856	7/22/08	8:25	36-1161	36-1162	Flowing	Total Nitrogen	mg/L	0.42	
TUB33.95	W1856	7/22/08	8:25	36-1161	36-1162	Flowing	Total Phosphorus	mg/L	0.014	
TUB33.95	W1856	7/22/08	8:25	36-1161	36-1162	Flowing	True Color	PCU	36	
TUB33.95	W1856	7/22/08	8:25	36-1161	36-1162	Flowing	Turbidity	NTU	2.8	
TUB33.95	W1856	8/19/08	8:43	36-1334	36-1335	Flowing	Ammonia-N	mg/L	0.03	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
TUB33.95	W1856	8/19/08	8:43	36-1334	36-1335	Flowing	*E. coli*	CFU/100mL	120	
TUB33.95	W1856	8/19/08	8:43	36-1334	36-1335	Flowing	Hardness	mg/L	24	m
TUB33.95	W1856	8/19/08	8:43	36-1334	36-1335	Flowing	Total Nitrogen	mg/L	0.46	
TUB33.95	W1856	8/19/08	8:43	36-1334	36-1335	Flowing	Total Phosphorus	mg/L	0.012	
TUB33.95	W1856	8/19/08	8:43	36-1334	36-1335	Flowing	True Color	PCU	64	
TUB33.95	W1856	8/19/08	8:43	36-1334	36-1335	Flowing	Turbidity	NTU	1.9	
TUB33.95	W1856	9/23/08	8:50	36-1525	36-1526	Flowing	Ammonia-N	mg/L	0.02	
TUB33.95	W1856	9/23/08	8:50	36-1525	36-1526	Flowing	*E. coli*	CFU/100mL	20	
TUB33.95	W1856	9/23/08	8:50	36-1525	36-1526	Flowing	Total Nitrogen	mg/L	0.42	
TUB33.95	W1856	9/23/08	8:50	36-1525	36-1526	Flowing	Total Phosphorus	mg/L	0.009	
TUB33.95	W1856	9/23/08	8:50	36-1525	36-1526	Flowing	True Color	PCU	56	
TUB33.95	W1856	9/23/08	8:50	36-1525	36-1526	Flowing	Turbidity	NTU	1.2	
TWB0.66	W1858	5/20/08	10:36	36-0766		Flowing	Ammonia-N	mg/L	<0.02	
TWB0.66	W1858	5/20/08	10:36	36-0766		Flowing	*E. coli*	CFU/100mL	22	
TWB0.66	W1858	5/20/08	10:36	36-0766		Flowing	Total Nitrogen	mg/L	0.34	
TWB0.66	W1858	5/20/08	10:36	36-0766		Flowing	Total Phosphorus	mg/L	0.018	
TWB0.66	W1858	5/20/08	10:36	36-0766		Flowing	True Color	PCU	22	
TWB0.66	W1858	5/20/08	10:36	36-0766		Flowing	Turbidity	NTU	1	
TWB0.66	W1858	6/17/08	10:40	36-0941		Flowing	Ammonia-N	mg/L	0.02	
TWB0.66	W1858	6/17/08	10:40	36-0941		Flowing	*E. coli*	CFU/100mL	510	
TWB0.66	W1858	6/17/08	10:40	36-0941		Flowing	Total Nitrogen	mg/L	0.48	
TWB0.66	W1858	6/17/08	10:40	36-0941		Flowing	Total Phosphorus	mg/L	0.04	
TWB0.66	W1858	6/17/08	10:40	36-0941		Flowing	True Color	PCU	49	
TWB0.66	W1858	6/17/08	10:40	36-0941		Flowing	Turbidity	NTU	2.8	
TWB0.66	W1858	7/9/08	10:27	36-1030		Flowing	*E. coli*	CFU/100mL	90	
TWB0.66	W1858	7/22/08	10:49	36-1196		Flowing	Ammonia-N	mg/L	0.02	
TWB0.66	W1858	7/22/08	10:49	36-1196		Flowing	*E. coli*	CFU/100mL	30	
TWB0.66	W1858	7/22/08	10:49	36-1196		Flowing	Hardness	mg/L	26	
TWB0.66	W1858	7/22/08	10:49	36-1196		Flowing	Total Nitrogen	mg/L	0.42	
TWB0.66	W1858	7/22/08	10:49	36-1196		Flowing	Total Phosphorus	mg/L	0.031	
TWB0.66	W1858	7/22/08	10:49	36-1196		Flowing	True Color	PCU	29	
TWB0.66	W1858	7/22/08	10:49	36-1196		Flowing	Turbidity	NTU	2.2	
TWB0.66	W1858	8/19/08	10:40	36-1369		Flowing	Ammonia-N	mg/L	<0.02	
TWB0.66	W1858	8/19/08	10:40	36-1369		Flowing	*E. coli*	CFU/100mL	90	
TWB0.66	W1858	8/19/08	10:40	36-1369		Flowing	Total Nitrogen	mg/L	0.41	
TWB0.66	W1858	8/19/08	10:40	36-1369		Flowing	Total Phosphorus	mg/L	0.024	
TWB0.66	W1858	8/19/08	10:40	36-1369		Flowing	True Color	PCU	40	
TWB0.66	W1858	8/19/08	10:40	36-1369		Flowing	Turbidity	NTU	2.1	
TWB0.66	W1858	9/23/08	10:30	36-1490		Flowing	Ammonia-N	mg/L	<0.02	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
TWB0.66	W1858	9/23/08	10:30	36-1490		Flowing	*E. coli*	CFU/100mL	40	
TWB0.66	W1858	9/23/08	10:30	36-1490		Flowing	Total Nitrogen	mg/L	0.31	
TWB0.66	W1858	9/23/08	10:30	36-1490		Flowing	Total Phosphorus	mg/L	0.018	
TWB0.66	W1858	9/23/08	10:30	36-1490		Flowing	True Color	PCU	26	
TWB0.66	W1858	9/23/08	10:30	36-1490		Flowing	Turbidity	NTU	1	
WA06A	W1009	5/20/08	12:14	36-0758		Flowing	Ammonia-N	mg/L	<0.02	
WA06A	W1009	5/20/08	12:14	36-0758		Flowing	*E. coli*	CFU/100mL	40	
WA06A	W1009	5/20/08	12:14	36-0758		Flowing	Total Nitrogen	mg/L	0.36	
WA06A	W1009	5/20/08	12:14	36-0758		Flowing	Total Phosphorus	mg/L	0.029	
WA06A	W1009	5/20/08	12:14	36-0758		Flowing	True Color	PCU	40	
WA06A	W1009	5/20/08	12:14	36-0758		Flowing	Turbidity	NTU	2.2	
WA06A	W1009	6/17/08	12:20	36-0933		Flowing	Ammonia-N	mg/L	0.04	
WA06A	W1009	6/17/08	12:20	36-0933		Flowing	*E. coli*	CFU/100mL	380	
WA06A	W1009	6/17/08	12:20	36-0933		Flowing	Total Nitrogen	mg/L	0.64	
WA06A	W1009	6/17/08	12:20	36-0933		Flowing	Total Phosphorus	mg/L	0.056	
WA06A	W1009	6/17/08	12:20	36-0933		Flowing	True Color	PCU	68	
WA06A	W1009	6/17/08	12:20	36-0933		Flowing	Turbidity	NTU	3.1	
WA06A	W1009	7/9/08	11:40	36-1022		Flowing	*E. coli*	CFU/100mL	90	
WA06A	W1009	7/22/08	12:13	36-1188		Flowing	Ammonia-N	mg/L	0.03	
WA06A	W1009	7/22/08	12:13	36-1188		Flowing	*E. coli*	CFU/100mL	90	
WA06A	W1009	7/22/08	12:13	36-1188		Flowing	Total Nitrogen	mg/L	0.49	
WA06A	W1009	7/22/08	12:13	36-1188		Flowing	Total Phosphorus	mg/L	0.046	
WA06A	W1009	7/22/08	12:13	36-1188		Flowing	True Color	PCU	57	
WA06A	W1009	7/22/08	12:13	36-1188		Flowing	Turbidity	NTU	3	
WA06A	W1009	8/19/08	12:18	36-1361		Flowing	Ammonia-N	mg/L	0.06	
WA06A	W1009	8/19/08	12:18	36-1361		Flowing	*E. coli*	CFU/100mL	>800	
WA06A	W1009	8/19/08	12:18	36-1361		Flowing	Hardness	mg/L	<20	
WA06A	W1009	8/19/08	12:18	36-1361		Flowing	Total Nitrogen	mg/L	0.56	
WA06A	W1009	8/19/08	12:18	36-1361		Flowing	Total Phosphorus	mg/L	0.035	
WA06A	W1009	8/19/08	12:18	36-1361		Flowing	True Color	PCU	67	
WA06A	W1009	8/19/08	12:18	36-1361		Flowing	Turbidity	NTU	2.6	
WA06A	W1009	9/23/08	12:10	36-1482		Flowing	Ammonia-N	mg/L	0.04	
WA06A	W1009	9/23/08	12:10	36-1482		Flowing	*E. coli*	CFU/100mL	900	
WA06A	W1009	9/23/08	12:10	36-1482		Flowing	Total Nitrogen	mg/L	0.47	
WA06A	W1009	9/23/08	12:10	36-1482		Flowing	Total Phosphorus	mg/L	0.032	
WA06A	W1009	9/23/08	12:10	36-1482		Flowing	True Color	PCU	58	
WA06A	W1009	9/23/08	12:10	36-1482		Flowing	Turbidity	NTU	3.2	
WA12	W1014	5/20/08	11:06	36-0780	36-0781	Flowing	Ammonia-N	mg/L	0.03	d
WA12	W1014	5/20/08	11:06	36-0780	36-0781	Flowing	*E. coli*	CFU/100mL	16	d

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
WA12	W1014	5/20/08	11:06	36-0780	36-0781	Flowing	Total Nitrogen	mg/L	0.41	
WA12	W1014	5/20/08	11:06	36-0780	36-0781	Flowing	Total Phosphorus	mg/L	0.029	
WA12	W1014	5/20/08	11:06	36-0780	36-0781	Flowing	True Color	PCU	32	
WA12	W1014	5/20/08	11:06	36-0780	36-0781	Flowing	Turbidity	NTU	2.1	
WA12	W1014	6/17/08	10:54	36-0955	36-0956	Flowing	Ammonia-N	mg/L	0.04	
WA12	W1014	6/17/08	10:54	36-0955	36-0956	Flowing	*E. coli*	CFU/100mL	150	
WA12	W1014	6/17/08	10:54	36-0955	36-0956	Flowing	Total Nitrogen	mg/L	0.62	
WA12	W1014	6/17/08	10:54	36-0955	36-0956	Flowing	Total Phosphorus	mg/L	0.037	
WA12	W1014	6/17/08	10:54	36-0955	36-0956	Flowing	True Color	PCU	52	
WA12	W1014	6/17/08	10:54	36-0955	36-0956	Flowing	Turbidity	NTU	2	
WA12	W1014	7/9/08	11:00	36-1044	36-1045	Flowing	*E. coli*	CFU/100mL	120	
WA12	W1014	7/22/08	11:01	36-1210	36-1211	Flowing	Ammonia-N	mg/L	0.03	d
WA12	W1014	7/22/08	11:01	36-1210	36-1211	Flowing	*E. coli*	CFU/100mL	30	
WA12	W1014	7/22/08	11:01	36-1210	36-1211	Flowing	Total Nitrogen	mg/L	0.5	
WA12	W1014	7/22/08	11:01	36-1210	36-1211	Flowing	Total Phosphorus	mg/L	0.028	
WA12	W1014	7/22/08	11:01	36-1210	36-1211	Flowing	True Color	PCU	32	
WA12	W1014	7/22/08	11:01	36-1210	36-1211	Flowing	Turbidity	NTU	1.7	
WA12	W1014	8/19/08	10:23	36-1383	36-1384	Flowing	Ammonia-N	mg/L	0.02	
WA12	W1014	8/19/08	10:23	36-1383	36-1384	Flowing	*E. coli*	CFU/100mL	180	
WA12	W1014	8/19/08	10:23	36-1383	36-1384	Flowing	Total Nitrogen	mg/L	0.52	
WA12	W1014	8/19/08	10:23	36-1383	36-1384	Flowing	Total Phosphorus	mg/L	0.03	
WA12	W1014	8/19/08	10:23	36-1383	36-1384	Flowing	True Color	PCU	58	d
WA12	W1014	8/19/08	10:23	36-1383	36-1384	Flowing	Turbidity	NTU	2.1	
WA12	W1014	9/23/08	11:07	36-1505	36-1506	Flowing	Ammonia-N	mg/L	0.02	
WA12	W1014	9/23/08	11:07	36-1505	36-1506	Flowing	*E. coli*	CFU/100mL	110	
WA12	W1014	9/23/08	11:07	36-1505	36-1506	Flowing	Total Nitrogen	mg/L	0.53	
WA12	W1014	9/23/08	11:07	36-1505	36-1506	Flowing	Total Phosphorus	mg/L	0.027	
WA12	W1014	9/23/08	11:07	36-1505	36-1506	Flowing	True Color	PCU	53	
WA12	W1014	9/23/08	11:07	36-1505	36-1506	Flowing	Turbidity	NTU	2	
WAWVA	W1847	5/20/08	10:07	36-0752		Flowing	Ammonia-N	mg/L	<0.02	
WAWVA	W1847	5/20/08	10:07	36-0752		Flowing	*E. coli*	CFU/100mL	44	
WAWVA	W1847	5/20/08	10:07	36-0752		Flowing	Total Nitrogen	mg/L	0.28	
WAWVA	W1847	5/20/08	10:07	36-0752		Flowing	Total Phosphorus	mg/L	0.018	
WAWVA	W1847	5/20/08	10:07	36-0752		Flowing	True Color	PCU	53	
WAWVA	W1847	5/20/08	10:07	36-0752		Flowing	Turbidity	NTU	2.4	
WAWVA	W1847	6/17/08	10:13	36-0927		Flowing	Ammonia-N	mg/L	0.04	
WAWVA	W1847	6/17/08	10:13	36-0927		Flowing	*E. coli*	CFU/100mL	80	
WAWVA	W1847	6/17/08	10:13	36-0927		Flowing	Total Nitrogen	mg/L	0.47	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
WAWVA	W1847	6/17/08	10:13	36-0927		Flowing	Total Phosphorus	mg/L	0.032	
WAWVA	W1847	6/17/08	10:13	36-0927		Flowing	True Color	PCU	53	
WAWVA	W1847	6/17/08	10:13	36-0927		Flowing	Turbidity	NTU	3.5	
WAWVA	W1847	7/9/08	10:00	36-1016		Flowing	*E. coli*	CFU/100mL	20	
WAWVA	W1847	7/22/08	10:20	36-1182		Flowing	Ammonia-N	mg/L	0.03	
WAWVA	W1847	7/22/08	10:20	36-1182		Flowing	*E. coli*	CFU/100mL	30	
WAWVA	W1847	7/22/08	10:20	36-1182		Flowing	Total Nitrogen	mg/L	0.47	
WAWVA	W1847	7/22/08	10:20	36-1182		Flowing	Total Phosphorus	mg/L	0.032	
WAWVA	W1847	7/22/08	10:20	36-1182		Flowing	True Color	PCU	62	
WAWVA	W1847	7/22/08	10:20	36-1182		Flowing	Turbidity	NTU	4.1	
WAWVA	W1847	8/19/08	10:29	36-1355		Flowing	Ammonia-N	mg/L	<0.02	
WAWVA	W1847	8/19/08	10:29	36-1355		Flowing	*E. coli*	CFU/100mL	70	
WAWVA	W1847	8/19/08	10:29	36-1355		Flowing	Total Nitrogen	mg/L	0.42	
WAWVA	W1847	8/19/08	10:29	36-1355		Flowing	Total Phosphorus	mg/L	0.027	
WAWVA	W1847	8/19/08	10:29	36-1355		Flowing	True Color	PCU	82	
WAWVA	W1847	8/19/08	10:29	36-1355		Flowing	Turbidity	NTU	2.7	
WAWVA	W1847	9/23/08	10:03	36-1476		Flowing	Ammonia-N	mg/L	0.02	
WAWVA	W1847	9/23/08	10:03	36-1476		Flowing	*E. coli*	CFU/100mL	40	
WAWVA	W1847	9/23/08	10:03	36-1476		Flowing	Total Nitrogen	mg/L	0.33	
WAWVA	W1847	9/23/08	10:03	36-1476		Flowing	Total Phosphorus	mg/L	0.02	
WAWVA	W1847	9/23/08	10:03	36-1476		Flowing	True Color	PCU	68	
WAWVA	W1847	9/23/08	10:03	36-1476		Flowing	Turbidity	NTU	3	
WAX	W1008	5/20/08	11:26	36-0755		Flowing	Ammonia-N	mg/L	0.02	
WAX	W1008	5/20/08	11:26	36-0755		Flowing	*E. coli*	CFU/100mL	34	
WAX	W1008	5/20/08	11:26	36-0755		Flowing	Total Nitrogen	mg/L	0.34	
WAX	W1008	5/20/08	11:26	36-0755		Flowing	Total Phosphorus	mg/L	0.026	
WAX	W1008	5/20/08	11:26	36-0755		Flowing	True Color	PCU	49	
WAX	W1008	5/20/08	11:26	36-0755		Flowing	Turbidity	NTU	2.7	
WAX	W1008	6/17/08	11:38	36-0930		Flowing	Ammonia-N	mg/L	0.05	
WAX	W1008	6/17/08	11:38	36-0930		Flowing	*E. coli*	CFU/100mL	270	
WAX	W1008	6/17/08	11:38	36-0930		Flowing	Total Nitrogen	mg/L	0.57	
WAX	W1008	6/17/08	11:38	36-0930		Flowing	Total Phosphorus	mg/L	0.046	
WAX	W1008	6/17/08	11:38	36-0930		Flowing	True Color	PCU	68	
WAX	W1008	6/17/08	11:38	36-0930		Flowing	Turbidity	NTU	3.3	
WAX	W1008	7/9/08	11:00	36-1019		**	*E. coli*	CFU/100mL	30	
WAX	W1008	7/22/08	11:40	36-1185		Flowing	Ammonia-N	mg/L	<0.02	
WAX	W1008	7/22/08	11:40	36-1185		Flowing	*E. coli*	CFU/100mL	60	
WAX	W1008	7/22/08	11:40	36-1185		Flowing	Total Nitrogen	mg/L	0.42	
WAX	W1008	7/22/08	11:40	36-1185		Flowing	Total	mg/L	0.043	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
							Phosphorus			
WAX	W1008	7/22/08	11:40	36-1185		Flowing	True Color	PCU	60	
WAX	W1008	7/22/08	11:40	36-1185		Flowing	Turbidity	NTU	3	
WAX	W1008	8/19/08	11:40	36-1358		Flowing	Ammonia-N	mg/L	<0.02	
WAX	W1008	8/19/08	11:40	36-1358		Flowing	*E. coli*	CFU/100mL	>800	
WAX	W1008	8/19/08	11:40	36-1358		Flowing	Total Nitrogen	mg/L	0.46	
WAX	W1008	8/19/08	11:40	36-1358		Flowing	Total Phosphorus	mg/L	0.034	
WAX	W1008	8/19/08	11:40	36-1358		Flowing	True Color	PCU	73	
WAX	W1008	8/19/08	11:40	36-1358		Flowing	Turbidity	NTU	3.1	
WAX	W1008	9/23/08	11:29	36-1543		Flowing	Ammonia-N	mg/L	<0.02	
WAX	W1008	9/23/08	11:29	36-1543		Flowing	*E. coli*	CFU/100mL	40	
WAX	W1008	9/23/08	11:29	36-1543		Flowing	Total Nitrogen	mg/L	0.37	
WAX	W1008	9/23/08	11:29	36-1543		Flowing	Total Phosphorus	mg/L	0.033	
WAX	W1008	9/23/08	11:29	36-1543		Flowing	True Color	PCU	62	
WAX	W1008	9/23/08	11:29	36-1543		Flowing	Turbidity	NTU	3.2	
WR02	W1869	5/20/08	10:25	36-0753		Flowing	Ammonia-N	mg/L	0.03	
WR02	W1869	5/20/08	10:25	36-0753		Flowing	*E. coli*	CFU/100mL	28	
WR02	W1869	5/20/08	10:25	36-0753		Flowing	Total Nitrogen	mg/L	0.3	
WR02	W1869	5/20/08	10:25	36-0753		Flowing	Total Phosphorus	mg/L	0.019	
WR02	W1869	5/20/08	10:25	36-0753		Flowing	True Color	PCU	50	
WR02	W1869	5/20/08	10:25	36-0753		Flowing	Turbidity	NTU	2.3	
WR02	W1869	6/17/08	10:43	36-0928		Flowing	Ammonia-N	mg/L	0.06	
WR02	W1869	6/17/08	10:43	36-0928		Flowing	*E. coli*	CFU/100mL	150	
WR02	W1869	6/17/08	10:43	36-0928		Flowing	Total Nitrogen	mg/L	0.54	
WR02	W1869	6/17/08	10:43	36-0928		Flowing	Total Phosphorus	mg/L	0.032	
WR02	W1869	6/17/08	10:43	36-0928		Flowing	True Color	PCU	69	
WR02	W1869	6/17/08	10:43	36-0928		Flowing	Turbidity	NTU	3	
WR02	W1869	7/9/08	10:15	36-1017		Flowing	*E. coli*	CFU/100mL	150	
WR02	W1869	7/22/08	10:56	36-1183		Flowing	Ammonia-N	mg/L	0.14	
WR02	W1869	7/22/08	10:56	36-1183		Flowing	*E. coli*	CFU/100mL	120	
WR02	W1869	7/22/08	10:56	36-1183		Flowing	Total Nitrogen	mg/L	0.57	
WR02	W1869	7/22/08	10:56	36-1183		Flowing	Total Phosphorus	mg/L	0.032	
WR02	W1869	7/22/08	10:56	36-1183		Flowing	True Color	PCU	64	
WR02	W1869	7/22/08	10:56	36-1183		Flowing	Turbidity	NTU	4.3	
WR02	W1869	8/19/08	11:00	36-1356		Flowing	Ammonia-N	mg/L	0.02	
WR02	W1869	8/19/08	11:00	36-1356		Flowing	*E. coli*	CFU/100mL	50	
WR02	W1869	8/19/08	11:00	36-1356		Flowing	Total Nitrogen	mg/L	0.41	
WR02	W1869	8/19/08	11:00	36-1356		Flowing	Total Phosphorus	mg/L	0.025	
WR02	W1869	8/19/08	11:00	36-1356		Flowing	True Color	PCU	78	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
WR02	W1869	8/19/08	11:00	36-1356		Flowing	Turbidity	NTU	2.4	
WR02	W1869	9/23/08	10:27	36-1477		Flowing	Ammonia-N	mg/L	0.04	
WR02	W1869	9/23/08	10:27	36-1477		Flowing	*E. coli*	CFU/100mL	20	
WR02	W1869	9/23/08	10:27	36-1477		Flowing	Total Nitrogen	mg/L	0.36	
WR02	W1869	9/23/08	10:27	36-1477		Flowing	Total Phosphorus	mg/L	0.021	
WR02	W1869	9/23/08	10:27	36-1477		Flowing	True Color	PCU	68	
WR02	W1869	9/23/08	10:27	36-1477		Flowing	Turbidity	NTU	2.8	
WR22.02	W1872	5/20/08	8:45	36-0774		Flowing	Ammonia-N	mg/L	0.02	
WR22.02	W1872	5/20/08	8:45	36-0774		Flowing	*E. coli*	CFU/100mL	64	h
WR22.02	W1872	5/20/08	8:45	36-0774		Flowing	Total Nitrogen	mg/L	0.44	
WR22.02	W1872	5/20/08	8:45	36-0774		Flowing	Total Phosphorus	mg/L	0.03	
WR22.02	W1872	5/20/08	8:45	36-0774		Flowing	True Color	PCU	34	
WR22.02	W1872	5/20/08	8:45	36-0774		Flowing	Turbidity	NTU	1.5	
WR22.02	W1872	6/17/08	8:45	36-0949		Flowing	Ammonia-N	mg/L	0.06	
WR22.02	W1872	6/17/08	8:45	36-0949		Flowing	*E. coli*	CFU/100mL	510	h
WR22.02	W1872	6/17/08	8:45	36-0949		Flowing	Total Nitrogen	mg/L	0.67	
WR22.02	W1872	6/17/08	8:45	36-0949		Flowing	Total Phosphorus	mg/L	0.038	
WR22.02	W1872	6/17/08	8:45	36-0949		Flowing	True Color	PCU	45	
WR22.02	W1872	6/17/08	8:45	36-0949		Flowing	Turbidity	NTU	2.2	
WR22.02	W1872	7/9/08	8:55	36-1038		Flowing	*E. coli*	CFU/100mL	40	
WR22.02	W1872	7/22/08	8:39	36-1204		Flowing	Ammonia-N	mg/L	0.04	
WR22.02	W1872	7/22/08	8:39	36-1204		Flowing	*E. coli*	CFU/100mL	60	
WR22.02	W1872	7/22/08	8:39	36-1204		Flowing	Total Nitrogen	mg/L	0.56	
WR22.02	W1872	7/22/08	8:39	36-1204		Flowing	Total Phosphorus	mg/L	0.03	
WR22.02	W1872	7/22/08	8:39	36-1204		Flowing	True Color	PCU	40	
WR22.02	W1872	7/22/08	8:39	36-1204		Flowing	Turbidity	NTU	1.7	
WR22.02	W1872	8/19/08	8:42	36-1377		Flowing	Ammonia-N	mg/L	0.02	
WR22.02	W1872	8/19/08	8:42	36-1377		Flowing	*E. coli*	CFU/100mL	550	
WR22.02	W1872	8/19/08	8:42	36-1377		Flowing	Total Nitrogen	mg/L	0.51	
WR22.02	W1872	8/19/08	8:42	36-1377		Flowing	Total Phosphorus	mg/L	0.027	
WR22.02	W1872	8/19/08	8:42	36-1377		Flowing	True Color	PCU	64	
WR22.02	W1872	8/19/08	8:42	36-1377		Flowing	Turbidity	NTU	2.4	
WR22.02	W1872	9/23/08	8:55	36-1498		Flowing	Ammonia-N	mg/L	0.03	
WR22.02	W1872	9/23/08	8:55	36-1498		Flowing	*E. coli*	CFU/100mL	140	
WR22.02	W1872	9/23/08	8:55	36-1498		Flowing	Total Nitrogen	mg/L	0.54	
WR22.02	W1872	9/23/08	8:55	36-1498		Flowing	Total Phosphorus	mg/L	0.025	
WR22.02	W1872	9/23/08	8:55	36-1498		Flowing	True Color	PCU	52	
WR22.02	W1872	9/23/08	8:55	36-1498		Flowing	Turbidity	NTU	1.7	
WR34	W1866	5/20/08	11:56	36-0757		Flowing	Ammonia-N	mg/L	<0.02	

Table 7 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Station ID	Unique ID	Date	Time	OWMID	Duplicate	Flow Condition	Analyte	Units	Result	Result Qualifiers
WR34	W1866	5/20/08	11:56	36-0757		Flowing	*E. coli*	CFU/100mL	22	
WR34	W1866	5/20/08	11:56	36-0757		Flowing	Total Nitrogen	mg/L	0.36	
WR34	W1866	5/20/08	11:56	36-0757		Flowing	Total Phosphorus	mg/L	0.029	
WR34	W1866	5/20/08	11:56	36-0757		Flowing	True Color	PCU	33	
WR34	W1866	5/20/08	11:56	36-0757		Flowing	Turbidity	NTU	2.7	
WR34	W1866	6/17/08	12:01	36-0932		Flowing	Ammonia-N	mg/L	0.03	
WR34	W1866	6/17/08	12:01	36-0932		Flowing	*E. coli*	CFU/100mL	330	
WR34	W1866	6/17/08	12:01	36-0932		Flowing	Total Nitrogen	mg/L	0.62	
WR34	W1866	6/17/08	12:01	36-0932		Flowing	Total Phosphorus	mg/L	0.047	
WR34	W1866	6/17/08	12:01	36-0932		Flowing	True Color	PCU	67	
WR34	W1866	6/17/08	12:01	36-0932		Flowing	Turbidity	NTU	3.3	
WR34	W1866	7/9/08	11:25	36-1021		Flowing	*E. coli*	CFU/100mL	100	
WR34	W1866	7/22/08	12:05	36-1187		Flowing	Ammonia-N	mg/L	0.02	
WR34	W1866	7/22/08	12:05	36-1187		Flowing	*E. coli*	CFU/100mL	120	
WR34	W1866	7/22/08	12:05	36-1187		Flowing	Total Nitrogen	mg/L	0.52	
WR34	W1866	7/22/08	12:05	36-1187		Flowing	Total Phosphorus	mg/L	0.045	
WR34	W1866	7/22/08	12:05	36-1187		Flowing	True Color	PCU	58	
WR34	W1866	7/22/08	12:05	36-1187		Flowing	Turbidity	NTU	2.9	
WR34	W1866	8/19/08	12:00	36-1360		Flowing	Ammonia-N	mg/L	<0.02	
WR34	W1866	8/19/08	12:00	36-1360		Flowing	*E. coli*	CFU/100mL	310	
WR34	W1866	8/19/08	12:00	36-1360		Flowing	Total Nitrogen	mg/L	0.49	
WR34	W1866	8/19/08	12:00	36-1360		Flowing	Total Phosphorus	mg/L	0.033	
WR34	W1866	8/19/08	12:00	36-1360		Flowing	True Color	PCU	67	
WR34	W1866	8/19/08	12:00	36-1360		Flowing	Turbidity	NTU	2.4	
WR34	W1866	9/23/08	11:55	36-1481		Flowing	Ammonia-N	mg/L	<0.02	
WR34	W1866	9/23/08	11:55	36-1481		Flowing	*E. coli*	CFU/100mL	40	
WR34	W1866	9/23/08	11:55	36-1481		Flowing	Total Nitrogen	mg/L	0.4	
WR34	W1866	9/23/08	11:55	36-1481		Flowing	Total Phosphorus	mg/L	0.24	
WR34	W1866	9/23/08	11:55	36-1481		Flowing	True Color	PCU	58	
WR34	W1866	9/23/08	11:55	36-1481		Flowing	Turbidity	NTU	2.6	
WR39.16	W2011	9/23/08	11:12	36-1406		Flowing	Ammonia-N	mg/L	0.02	
WR39.16	W2011	9/23/08	11:12	36-1406		Flowing	*E. coli*	CFU/100mL	20	
WR39.16	W2011	9/23/08	11:12	36-1406		Flowing	Total Nitrogen	mg/L	0.37	
WR39.16	W2011	9/23/08	11:12	36-1406		Flowing	Total Phosphorus	mg/L	0.029	
WR39.16	W2011	9/23/08	11:12	36-1406		Flowing	True Color	PCU	61	
WR39.16	W2011	9/23/08	11:12	36-1406		Flowing	Turbidity	NTU	2.9	

Table 8. 2008 MassDEP Chicopee River Watershed *E. coli* geometric means of samples for sites with a minimum of five samples.

Station ID	Unique ID	Waterbody	# of *E. coli* Samples	Geomean* (CFU/100 mL)
BOB0.25	W1855	Bottle Brook	6	65
BSR1.39	W1849	Burnshirt River	6	49
CAB0.11	W1857	Calkins Brook	6	66
CH01	W1033	Chicopee River	6	234
CH02B	W1032	Chicopee River	6	87
CH06	W1031	Chicopee River	6	85
CHB1.73	W1854	Chicopee Brook	6	237
CHB2.39	W1871	Chicopee Brook	6	255
CHB4.24	W1853	Chicopee Brook	6	175
COB5.88	W1862	Conant Brook	6	60
CT03A	W2055	Chicopee River	5	210
CT03B	W0475	Chicopee River	6	169
CT03C	W2056	Chicopee River	6	187
DAB0.66	W1860	Danforth Brook	6	190
DB07	W1039	Forget-Me-Not Brook	6	34
DB08	W1040	Forget-Me-Not Brook	6	181
DB1.0	W1873	Dunn Brook	6	63
EB04	W1038	East Brookfield River	6	4
EWB60.75	W1848	East Branch Ware River	6	19
GAB0.04	W1852	Galloway Brook	6	22
JAB6.53	W1859	Jabish Brook	6	97
JAB7.84	W1874	Jabish Brook	6	62
JOB6.23	W1861	Joslin Brook	6	15
KIB0.17	W1864	Kings Brook	6	31
MB2.28	W1851	Moose Brook	6	19
MUB0.20	W1687	Muddy Brook	6	112
POB1.42	W1865	Unnamed Tributary	6	135
PR2.48	W1850	Prince River	6	172
QA06A	W1011	Quaboag River	6	250
QA09A	W1015	Quaboag River	8	281
QR0.08	W1875	Quaboag River	6	205
QR11.88	W1868	Quaboag River	6	166
QR19.87	W1995	Quaboag River	6	20
SM01	W1036	Sevenmile River	6	260
SM29.2	W1870	Sevenmile River	6	206
SM32.6	W1876	Sevenmile River	6	256
SR02	W1013	Swift River	6	14
SR03	W1012	Swift River	6	15
TUB33.95	W1856	Turkey Hill Brook	6	46
TWB0.66	W1858	Twelvemile Brook	6	69
WA06A	W1009	Ware River	6	211
WA12	W1014	Ware River	6	75
WAWVA	W1847	Ware River	6	43
WAX	W1008	Ware River	6	90

Table 8 (continued). 2008 MassDEP Chicopee River Watershed *E. coli* geometric means of samples with greater than five samples

Station ID	Unique ID	Waterbody	# of *E. coli* Samples	Geomean* (CFU/100 mL)
WR02	W1869	Ware River	6	65
WR22.02	W1872	Ware River	6	135
WR34	W1866	Ware River	6	101

*The detection limit or the upper quantification limit was used in the geometric mean calculation if the result was either below the detection limit or above the upper quantification limit. Results from duplicate samples were removed before completing the geometric mean calculation.

Table 9. 2008 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
BOB0.25	W1855	Bottle Brook	36-0802	5/20/08	12:23	Flowing	0.2		10.5		6.9		64		41		10.8		100	
BOB0.25	W1855	Bottle Brook	36-1581	6/10/08	14:30	Flowing	--		19.7	s	--		--		--		--		--	
BOB0.25	W1855	Bottle Brook	36-0975	6/17/08	11:58	Flowing	0.2		16.6		6.8		90		57		9.1		95	
BOB0.25	W1855	Bottle Brook	36-1230	7/22/08	12:17	Flowing	0.1		18.9		7.4		79		51		9.2		99	
BOB0.25	W1855	Bottle Brook	36-1653	7/31/08	11:08	Flowing	--		19.1	s	--		--		--		--		--	
BOB0.25	W1855	Bottle Brook	36-1403	8/19/08	14:45	Flowing	0.3		17.8		7.3		67		43		9.5		100	
BOB0.25	W1855	Bottle Brook	36-1524	9/23/08	13:29	Flowing	0.2		12.0		7.1		66		42		10.5		97	
BOB0.25	W1855	Bottle Brook	36-1582	9/26/08	12:51	Flowing	--		13.2	s	--		--		--		--		--	
BSR1.39	W1849	Burnshirt River	36-0868	6/13/08	9:10	Flowing	0.2		17.6		6.3		57		37		8.5		89	
BSR1.39	W1849	Burnshirt River	36-0869	6/16/08	9:56	Flowing	0.3		18.0		6.3		55		35		8.5		92	
BSR1.39	W1849	Burnshirt River	36-1123	7/18/08	9:19	Flowing	--		21.4		6.4		58		37		8.1		92	
BSR1.39	W1849	Burnshirt River	36-1124	7/21/08	9:16	Flowing	--		23.0		6.4		56		36		7.7		92	
BSR1.39	W1849	Burnshirt River	36-1296	8/15/08	9:06	Flowing	--		19.2		6.1		51		33		8.2		90	
BSR1.39	W1849	Burnshirt River	36-1297	8/18/08	9:27	Flowing	--		19.0		6.1		53		34		8.4		91	
CBG	W0494	Ware River	36-0877	6/13/08	10:54	Flowing	0.2		21.9		6.6		113		73		8.3		95	
CBG	W0494	Ware River	36-0878	6/16/08	11:06	Flowing	0.3		19.4		6.5		115		73		8.7		96	
CBG	W0494	Ware River	36-1606	6/18/08	17:02	**	--		18.8	s	--		--		--		--		--	
CBG	W0494	Ware River	36-1132	7/18/08	10:40	Flowing	--		23.7		6.7		108		69		7.9		94	
CBG	W0494	Ware River	36-1133	7/21/08	10:22	Flowing	--		24.4		6.6		111		71		7.6		93	
CBG	W0494	Ware River	36-1305	8/15/08	10:53	Flowing	--		20.2		6.4		73		47		8.2		92	
CBG	W0494	Ware River	36-1306	8/18/08	10:42	Flowing	--		20.9		6.4		78		50		8.2		94	
CBG	W0494	Ware River	36-1607	9/26/08	10:30	**	--		13.8	s	--		--		--		--		--	
CH01	W1033	Chicopee River	36-0856	6/16/08	14:41	Flowing	0.7		19.6		7.2		133		85		9.0		100	
CH01	W1033	Chicopee River	36-0857	6/18/08	12:01	Flowing	0.6		17.9		7.1		123		79		9.3		101	
CH01	W1033	Chicopee River	36-1111	7/21/08	18:25	Flowing	0.5		25.8		7.3		154		98		8.7		109	
CH01	W1033	Chicopee River	36-1112	7/23/08	12:02	Flowing	0.2		21.7		6.8		114		73		8.0		92	
CH01	W1033	Chicopee River	36-1284	8/18/08	12:05	Flowing	0.6		21.2		7.0		114		73		8.0		91	
CH01	W1033	Chicopee River	36-1285	8/20/08	13:29	Flowing	--		19.7		7.2		120		78		8.8		98	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
CH06	W1031	Chicopee River	36-1612	6/2/08	13:21	Flowing	--		19.0	s	--		--		--		--		--	
CH06	W1031	Chicopee River	36-0850	6/16/08	16:20	Flowing	0.4		22.2		7.2		125		80		8.4		98	
CH06	W1031	Chicopee River	36-0971	6/17/08	11:57	Flowing	1.3		21.3		7.0		121		77		8.7		101	
CH06	W1031	Chicopee River	36-0851	6/18/08	10:40	Flowing	0.5		20.9		7.2		126		81		8.8		101	
CH06	W1031	Chicopee River	36-1105	7/21/08	16:23	Flowing	0.3		26.4		7.1		144		92		8.0		101	
CH06	W1031	Chicopee River	36-1226	7/22/08	12:10	Flowing	--		26.2		7.0		143		91		8.1		102	
CH06	W1031	Chicopee River	36-1106	7/23/08	10:40	Flowing	0.4		25.0		7.1		141		91		8.0		98	
CH06	W1031	Chicopee River	36-1652	7/31/08	13:02	Flowing	--		23.6	s	--		--		--		--		--	
CH06	W1031	Chicopee River	36-1278	8/18/08	13:09	Flowing	0.6		22.3		--		--		--		8.1		94	
CH06	W1031	Chicopee River	36-1399	8/19/08	11:29	Flowing	0.5		22.4		6.8		111		71		7.9		93	
CH06	W1031	Chicopee River	36-1279	8/20/08	11:16	Flowing	0.5		22.3		7.1		115		74		8.8		103	
CH06	W1031	Chicopee River	36-1520	9/23/08	11:26	Flowing	0.1		16.6		7.2		121		78		10.3		105	
CH06	W1031	Chicopee River	36-1613	9/30/08	14:00	Flowing	--		17.4	s	--		--		--		--		--	
CH13.43	W2005	Chicopee River	36-0853	6/16/08	17:03	Flowing	0.6		20.5		6.7		118		76		7.2	u	82	u
CH13.43	W2005	Chicopee River	36-0854	6/18/08	11:28	Flowing	0.4		19.7		6.9		113		72		8.5		96	
CH13.43	W2005	Chicopee River	36-1108	7/21/08	17:18	Flowing	1.3		25.9		7.1		132		85		8.9		112	
CH13.43	W2005	Chicopee River	36-1109	7/23/08	11:26	Flowing	0.9		24.1		6.9		129		83		7.4		90	
CH13.43	W2005	Chicopee River	36-1281	8/18/08	11:19	Flowing	1.0		21.7		6.8		103		66		7.6		88	
CH13.43	W2005	Chicopee River	36-1282	8/20/08	12:11	Flowing	--		21.9		6.9		108		69		7.9		91	
CHB1.73	W1854	Chicopee Brook	36-0797	5/20/08	9:40	Flowing	0.4		10.3		6.6		119		76		10.3		95	
CHB1.73	W1854	Chicopee Brook	36-1597	6/10/08	13:16	Flowing	--		24.4	s	--		--		--		--		--	
CHB1.73	W1854	Chicopee Brook	36-0844	6/16/08	13:50	Flowing	0.6		17.3		6.8		121		78		8.9		95	
CHB1.73	W1854	Chicopee Brook	36-0845	6/18/08	9:26	Flowing	0.6		15.2		6.5		103		66		9.2		94	
CHB1.73	W1854	Chicopee Brook	36-1099	7/21/08	14:42	Flowing	0.1		24.9		6.8		140		89		8.5		104	
CHB1.73	W1854	Chicopee Brook	36-1100	7/23/08	9:18	Flowing	0.5		20.4		6.5		84		54		8.1		91	
CHB1.73	W1854	Chicopee Brook	36-1655	7/31/08	10:49	Flowing	--		20.4	s	--		--		--		--		--	
CHB1.73	W1854	Chicopee Brook	36-1272	8/18/08	11:48	Flowing	0.4		19.5		--		--		--		8.4		93	
CHB1.73	W1854	Chicopee Brook	36-1273	8/20/08	9:50	Flowing	0.1		15.5		6.8		126		81		9.2		94	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
CHB1.73	W1854	Chicopee Brook	36-1598	9/26/08	15:02	Flowing	--		14.1	s	--		--		--		--		--	
CHB2.39	W1871	Chicopee Brook	36-0970	6/17/08	9:31	Flowing	0.2		16.3		6.7		87		56		9.2		96	
CHB2.39	W1871	Chicopee Brook	36-1225	7/22/08	9:46	Flowing	--		21.3		6.8		153		98		7.6		87	
CHB2.39	W1871	Chicopee Brook	36-1398	8/19/08	9:50	Flowing	0.1		19.3		6.8		120		77		8.8		97	
CHB2.39	W1871	Chicopee Brook	36-1519	9/23/08	9:34	Flowing	0.8		12.0		6.8		127		82		10.7		99	
CHB2.482	W2004	Chicopee Brook	36-1594	6/2/08	14:47	Flowing	--		19.5	s	--		--		--		--		--	
CHB2.482	W2004	Chicopee Brook	36-1647	7/31/08	9:37	Flowing	--		20.3	s	--		--		--		--		--	
CHB2.482	W2004	Chicopee Brook	36-1595	9/26/08	14:08	Flowing	--		14.0	s	--		--		--		--		--	
CHB2.544	W2003	Chicopee Brook	36-1591	6/2/08	16:20	Flowing	--		19.3	s	--		--		--		--		--	
CHB2.544	W2003	Chicopee Brook	36-1648	7/31/08	9:52	Flowing	--		20.3	s	--		--		--		--		--	
CHB2.544	W2003	Chicopee Brook	36-1592	9/26/08	13:49	Flowing	--		13.9	s	--		--		--		--		--	
CHB3.0	W2002	Chicopee Brook	36-1587	6/2/08	15:17	Flowing	--		17.7	s	--		--		--		--		--	
CHB3.0	W2002	Chicopee Brook	36-1650	7/31/08	9:20	Flowing	--		19.6	s	--		--		--		--		--	
CHB3.0	W2002	Chicopee Brook	36-1588	9/26/08	14:47	Flowing	--		13.9	s	--		--		--		--		--	
CHB4.24	W1853	Chicopee Brook	36-1584	6/2/08	14:34	Flowing	--		18.0	s	--		--		--		--		--	
CHB4.24	W1853	Chicopee Brook	36-1661	6/2/08	14:35	Flowing	--		18.0	s	--		--		--		--		--	
CHB4.24	W1853	Chicopee Brook	36-0841	6/16/08	13:20	Flowing	0.2		16.6		6.9		102		65		9.3		97	
CHB4.24	W1853	Chicopee Brook	36-0842	6/18/08	8:57	Flowing	0.2		15.0		6.6		87		55		9.6		98	
CHB4.24	W1853	Chicopee Brook	36-1096	7/21/08	14:07	Flowing	0.2		23.2		6.8		125		80		8.1		97	
CHB4.24	W1853	Chicopee Brook	36-1097	7/23/08	8:57	Flowing	0.0	i	20.3		6.8		72		46		8.6		97	
CHB4.24	W1853	Chicopee Brook	36-1651	7/31/08	8:53	Flowing	--		19.9	s	--		--		--		--		--	
CHB4.24	W1853	Chicopee Brook	36-1269	8/18/08	11:25	Flowing	0.2		19.2		--		--		--		8.2		90	
CHB4.24	W1853	Chicopee Brook	36-1270	8/20/08	9:23	Flowing	0.1		15.2		6.8		104		66		9.7		98	
CHB4.24	W1853	Chicopee Brook	36-1585	9/26/08	14:29	Flowing	--		13.9	s	--		--		--		--		--	
COB5.88	W1862	Conant Brook	36-0796	5/20/08	8:58	Flowing	0.4		10.6		6.6		62		40		10.5	u	97	u
COB5.88	W1862	Conant Brook	36-0969	6/17/08	8:53	Flowing	0.2		16.0		6.8		56		36		9.7		101	
COB5.88	W1862	Conant Brook	36-1224	7/22/08	9:07	Flowing	--		22.3		7.1		81		52		8.2		96	
COB5.88	W1862	Conant Brook	36-1397	8/19/08	9:10	Flowing	0.4		20.1		6.9		64		41		8.7		98	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
COB5.88	W1862	Conant Brook	36-1518	9/23/08	9:07	Flowing	0.4		12.0		6.6		68		44		10.9		101	
CT03B	W0475	Chicopee River	36-0798	5/20/08	12:42	Flowing	0.1		14.9		7.1		116		74		10.3		104	
CT03B	W0475	Chicopee River	36-0972	6/17/08	13:07	Flowing	0.6		21.8		7.2		142		91		8.8		103	
CT03B	W0475	Chicopee River	36-1227	7/22/08	13:37	Flowing	--		27.3		8.0		176		113		8.3		106	
CT03B	W0475	Chicopee River	36-1400	8/19/08	12:30	Flowing	0.6		22.4		7.3		125		80		8.8		104	
CT03B	W0475	Chicopee River	36-1521	9/23/08	12:26	Flowing	0.0		16.4		7.4		##	u	##	u	10.5		107	
DB07	W1039	Forget-Me-Not Brook	36-0832	6/13/08	11:00	Flowing	0.3		18.4		7.6		513		328		7.9	i	85	i
DB07	W1039	Forget-Me-Not Brook	36-0833	6/16/08	10:45	Flowing	0.2		16.7		7.6		399		255		8.3		87	
DB07	W1039	Forget-Me-Not Brook	36-1087	7/18/08	10:51	Flowing	0.2		22.1		7.6		571		365		7.7		89	
DB07	W1039	Forget-Me-Not Brook	36-1088	7/21/08	11:10	Flowing	0.2		21.8		7.2		280		180		8.1		94	
DB07	W1039	Forget-Me-Not Brook	36-1260	8/15/08	10:35	Flowing	0.1		18.3		7.3		321	u	205	u	8.5		92	
DB07	W1039	Forget-Me-Not Brook	36-1261	8/18/08	9:02	Flowing	0.1		18.0		--		--		--		7.9		85	
DB1.0	W1873	Dunn Brook	36-0788	5/20/08	11:19	Flowing	0.4		13.1		6.7		171		111		8.8		84	
DB1.0	W1873	Dunn Brook	36-0835	6/13/08	11:34	Flowing	0.3		19.9		6.6		200		128		3.9	i	43	i
DB1.0	W1873	Dunn Brook	36-0836	6/16/08	11:10	Flowing	0.4		18.3		6.6		202		129		2.9		32	
DB1.0	W1873	Dunn Brook	36-1090	7/18/08	11:46	Flowing	0.5		22.5		6.5		216		138		0.8		10	
DB1.0	W1873	Dunn Brook	36-1091	7/21/08	11:44	Flowing	0.2		24.2		6.4		222		142		0.9		11	
DB1.0	W1873	Dunn Brook	36-1263	8/15/08	11:07	Flowing	0.2		19.6		6.4		147		94		2.7		30	
DB1.0	W1873	Dunn Brook	36-1264	8/18/08	9:27	Flowing	0.2		19.1		--		--		--		1.7		19	
DB1.0	W1873	Dunn Brook	36-1462	9/5/08	11:29	Flowing	##	i	21.1		6.6		213		137		5.2		59	
DB1.0	W1873	Dunn Brook	36-1463	9/10/08	10:17	Flowing	--		16.5		6.1		104		67		3.9		40	
EB04	W1038	East Brookfield River	36-0787	5/20/08	10:26	Flowing	0.3		14.5		6.9		72		47		10.4		102	
EB04	W1038	East Brookfield River	36-0826	6/13/08	10:00	Flowing	0.3		24.4		7.0		72		46		7.7	i	93	i
EB04	W1038	East Brookfield River	36-0827	6/16/08	10:02	Flowing	0.2		22.6		7.0		73		47		7.7		92	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
EB04	W1038	East Brookfield River	36-1081	7/18/08	10:01	Flowing	0.3		26.7		6.9		77	u	49	u	7.1		90	
EB04	W1038	East Brookfield River	36-1082	7/21/08	10:04	Flowing	0.3		26.5		6.9		75		48		7.0		90	
EB04	W1038	East Brookfield River	36-1254	8/15/08	9:49	Flowing	0.1		23.1		7.1		73		47		7.9		94	
EB04	W1038	East Brookfield River	36-1255	8/18/08	10:00	Flowing	0.3		24.1		7.1		74		47		7.5		91	
EWB60.75	W1848	East Branch Ware River	36-0793	5/20/08	9:06	Flowing	0.2		11.8		6.3		60		38		9.6		92	
EWB60.75	W1848	East Branch Ware River	36-0865	6/13/08	8:40	Flowing	0.2		18.3		6.6		67		43		8.3		89	
EWB60.75	W1848	East Branch Ware River	36-0866	6/16/08	9:28	Flowing	0.2		17.9		6.6		68		44		8.4		90	
EWB60.75	W1848	East Branch Ware River	36-0966	6/17/08	9:00	Flowing	0.2		17.6		6.6		70		45		8.5		91	
EWB60.75	W1848	East Branch Ware River	36-1120	7/18/08	8:53	Flowing	--		20.8		6.8		79		51		8.1		92	
EWB60.75	W1848	East Branch Ware River	36-1121	7/21/08	8:39	Flowing	--		22.3		6.6		80		51		7.5		88	
EWB60.75	W1848	East Branch Ware River	36-1221	7/22/08	9:03	Flowing	0.1		21.7		6.7		83		53		7.9		91	
EWB60.75	W1848	East Branch Ware River	36-1293	8/15/08	8:33	Flowing	--		18.8		6.3		68		43		7.8		86	
EWB60.75	W1848	East Branch Ware River	36-1294	8/18/08	8:59	Flowing	--		19.8		6.4		69		44		7.9		88	
EWB60.75	W1848	East Branch Ware River	36-1394	8/19/08	9:23	Flowing	--		21.2		6.4		70		45		7.7		88	
EWB60.75	W1848	East Branch Ware River	36-1516	9/23/08	9:04	Flowing	0.4		12.1		6.8		65		42		9.7		91	
FMNB3.68	W1990	Forget-Me-Not Brook	36-0829	6/13/08	10:37	Flowing	0.1		15.6		6.9		247		158		8.7	i	88	i
FMNB3.68	W1990	Forget-Me-Not Brook	36-0830	6/16/08	10:28	Flowing	0.1		15.9		6.9		242		155		8.5		87	
FMNB3.68	W1990	Forget-Me-Not Brook	36-1084	7/18/08	10:31	Flowing	0.1		18.7		7.0		318		204		8.3		90	
FMNB3.68	W1990	Forget-Me-Not Brook	36-1085	7/21/08	10:52	Flowing	0.2		21.4		6.9		261		167		7.7		89	
FMNB3.68	W1990	Forget-Me-Not Brook	36-1257	8/15/08	10:16	Flowing	0.1		17.2		7.0		204	u	131	u	8.5		90	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
FMNB3.68	W1990	Forget-Me-Not Brook	36-1258	8/18/08	8:47	Flowing	0.1		16.6		--		--		--		8.1		84	
JAB7.84	W1874	Jabish Brook	36-0904	6/16/08	16:23	Flowing	0.1		16.4		6.7		201		129		9.1		95	
JAB7.84	W1874	Jabish Brook	36-0905	6/18/08	11:20	Flowing	0.1		14.3		6.6		169		108		9.7		97	
JAB7.84	W1874	Jabish Brook	36-1159	7/21/08	15:02	Flowing	--		21.5		6.8		226		145		8.0		92	
JAB7.84	W1874	Jabish Brook	36-1160	7/23/08	12:46	Flowing	--		20.0		6.5		145		93		8.5		94	
JAB7.84	W1874	Jabish Brook	36-1332	8/18/08	16:30	Flowing	--		20.3		6.6		158		101		8.4		94	
JAB7.84	W1874	Jabish Brook	36-1333	8/20/08	11:51	Flowing	--		14.8		6.6		173		111		9.8		98	
KIB0.17	W1864	Kings Brook	36-0792	5/20/08	12:49	Flowing	0.1		11.8		7.0		87		56		11.4		105	
KIB0.17	W1864	Kings Brook	36-1603	6/2/08	15:32	**	--		15.7	s	--		--		--		--		--	
KIB0.17	W1864	Kings Brook	36-0965	6/17/08	12:33	Flowing	0.0		16.3		7.2		119		77		9.9		101	
KIB0.17	W1864	Kings Brook	36-1220	7/22/08	11:59	Flowing	0.3		19.7		7.1		185		118		8.5		95	
KIB0.17	W1864	Kings Brook	36-1649	7/31/08	11:46	**	--		20.3	s	--		--		--		--		--	
KIB0.17	W1864	Kings Brook	36-1393	8/19/08	12:03	Flowing	0.4		18.5		7.1		112		73		9.4		100	
KIB0.17	W1864	Kings Brook	36-1515	9/23/08	12:11	Flowing	0.1		12.0		6.9		110		70		10.5		98	
KIB0.17	W1864	Kings Brook	36-1604	9/26/08	12:30	**	--		13.1	s	--		--		--		--		--	
MB2.28	W1851	Moose Brook	36-0880	6/13/08	11:46	Flowing	0.1		20.3		7.0		84		54		8.1		90	
MB2.28	W1851	Moose Brook	36-0881	6/16/08	11:51	Flowing	0.1		19.1		7.0		85		55		8.4		92	
MB2.28	W1851	Moose Brook	36-1135	7/18/08	11:20	Flowing	--		23.5		6.9		89		57		7.7		91	
MB2.28	W1851	Moose Brook	36-1136	7/21/08	11:00	Flowing	--		24.4		7.0		88		56		7.6		93	
MB2.28	W1851	Moose Brook	36-1308	8/15/08	11:35	Flowing	--		20.2		6.9		73		47		8.1		91	
MB2.28	W1851	Moose Brook	36-1309	8/18/08	11:57	Flowing	--		21.5		6.8		77		49		8.1		93	
PEB0.48	W1863	Penny Brook	36-1600	6/10/08	14:03	Flowing	--		21.4	s	--		--		--		--		--	
PEB0.48	W1863	Penny Brook	36-1654	7/31/08	11:28	Flowing	--		19.7	s	--		--		--		--		--	
PEB0.48	W1863	Penny Brook	36-1601	9/26/08	13:18	Flowing	--		13.2	s	--		--		--		--		--	
POBDIS	W2006	Unnamed Tributary	36-1618	6/10/08	11:03	Flowing	--		16.4	s	--		--		--		--		--	
POBDIS	W2006	Unnamed Tributary	36-1656	7/31/08	14:03	Flowing	--		17.7	s	--		--		--		--		--	
POBDIS	W2006	Unnamed Tributary	36-1619	10/17/08	11:05	Flowing	--		13.0	s	--		--		--		--		--	
POBDWN	W2008	Unnamed Tributary	36-1615	6/10/08	10:49	Flowing	--		19.6	s	--		--		--		--		--	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
POBDWN	W2008	Unnamed Tributary	36-1657	7/31/08	14:01	Flowing	--		21.9	s	--		--		--		--		--	
POBDWN	W2008	Unnamed Tributary	36-1616	10/17/08	11:14	Flowing	--		12.1	s	--		--		--		--		--	
POBUP	W2007	Unnamed Tributary	36-1621	6/10/08	10:33	Flowing	--		19.5	s	--		--		--		--		--	
POBUP	W2007	Unnamed Tributary	36-1658	7/31/08	13:52	Flowing	--		21.9	s	--		--		--		--		--	
POBUP	W2007	Unnamed Tributary	36-1622	10/17/08	10:53	Flowing	--		12.0	s	--		--		--		--		--	
PR2.48	W1850	Prince River	36-0874	6/13/08	10:27	Flowing	0.2		16.0		6.4		225		144		8.4		86	
PR2.48	W1850	Prince River	36-0875	6/16/08	10:45	Flowing	0.2		15.9		6.5		238		152		8.6		89	
PR2.48	W1850	Prince River	36-1129	7/18/08	10:15	Flowing	--		19.1		6.4		277		177		7.8		86	
PR2.48	W1850	Prince River	36-1130	7/21/08	10:02	Flowing	--		20.8		6.4		156		100		7.7		87	
PR2.48	W1850	Prince River	36-1302	8/15/08	10:10	Flowing	--		17.8		6.3		119		76		8.2		88	
PR2.48	W1850	Prince River	36-1303	8/18/08	10:20	Flowing	--		17.9		6.2		126		81		8.2		88	
QA06A	W1011	Quaboag River	36-0790	5/20/08	12:13	Flowing	0.5		14.1		7.1		109		71		10.8		105	
QA06A	W1011	Quaboag River	36-0963	6/17/08	11:37	Flowing	0.4		20.8		7.3		112		73		9.0		101	
QA06A	W1011	Quaboag River	36-1218	7/22/08	11:22	Flowing	0.2		25.9		7.4		126		81		7.7		97	
QA06A	W1011	Quaboag River	36-1391	8/19/08	11:24	Flowing	0.6		22.2		7.1		110	u	72	u	8.6		98	
QA06A	W1011	Quaboag River	36-1513	9/23/08	11:29	Flowing	0.7		16.3		6.9		102		65		9.7		99	
QA09A	W1015	Quaboag River	36-0859	6/16/08	17:38	Flowing	0.2		19.8		7.1		157		101		9.0		100	
QA09A	W1015	Quaboag River	36-0860	6/18/08	12:30	Flowing	0.2		18.1		7.0		140		89		9.4		102	
QA09A	W1015	Quaboag River	36-1114	7/21/08	16:50	Flowing	--		26.5		7.4		171		109		8.8		112	
QA09A	W1015	Quaboag River	36-1115	7/23/08	12:32	Flowing	0.4		21.5		6.7		121		78		7.6		88	
QA09A	W1015	Quaboag River	36-1287	8/18/08	13:06	Flowing	0.4		22.0		7.0		120		77		8.2		95	
QA09A	W1015	Quaboag River	36-1288	8/20/08	14:26	Flowing	0.7		20.5		7.2		127		81		9.3		104	
QR0.08	W1875	Quaboag River	36-0801	5/20/08	11:33	Flowing	1.1		13.0		6.9		127		81		10.3		101	
QR0.08	W1875	Quaboag River	36-0974	6/17/08	11:16	Flowing	1.0		17.9		6.9		127		81		8.7		93	
QR0.08	W1875	Quaboag River	36-1229	7/22/08	11:24	Flowing	0.7		23.8		7.2		174		113		8.4		100	
QR0.08	W1875	Quaboag River	36-1402	8/19/08	13:46	Flowing	0.7		22.1		7.2		124		81		8.7		99	
QR0.08	W1875	Quaboag River	36-1523	9/23/08	14:22	Flowing	0.4		16.1		7.1		119		76		9.9		101	
QR11.88	W1868	Quaboag River	36-0791	5/20/08	12:31	Flowing	0.8		14.2		7.2		110		72		10.8		105	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
QR11.88	W1868	Quaboag River	36-0964	6/17/08	12:10	Flowing	0.1		21.2		7.6		117		76		9.2		104	
QR11.88	W1868	Quaboag River	36-1219	7/22/08	11:40	Flowing	0.4		25.7		7.7		127		81		8.0		100	
QR11.88	W1868	Quaboag River	36-1392	8/19/08	11:43	Flowing	0.6		22.2		7.4		109		71		8.7		100	
QR11.88	W1868	Quaboag River	36-1514	9/23/08	11:52	Flowing	0.4		16.4		7.2		103		66		9.8		99	
QR18.89	W2000	Quaboag River	36-1564	9/10/08	14:11	Flowing	--		20.2		5.9		81		52		2.1		23	
QR19.02	W1998	Quaboag River	36-1562	9/10/08	13:48	Flowing	--		20.0		5.9		82		53		1.8		20	
QR19.35	W1997	Quaboag River	36-1561	9/10/08	13:42	Flowing	--		20.0		5.9		83		53		1.8		20	
QR19.62	W1996	Quaboag River	36-1555	9/22/08	12:23	Flowing	0.8		18.0		6.1		102		65		2.7		29	
QR19.62	W1996	Quaboag River	36-1556	9/24/08	10:57	Flowing	0.7		16.7		6.1		103		66		3.4		35	
QR19.87	W1995	Quaboag River	36-0789	5/20/08	11:47	Flowing	0.1		14.3		7.0		116		75		10.9	u	106	u
QR19.87	W1995	Quaboag River	36-0962	6/17/08	11:02	Flowing	0.1		21.2		6.6		134		87		7.7		87	
QR19.87	W1995	Quaboag River	36-1217	7/22/08	10:50	Flowing	0.4		25.5		6.4		133		85		2.5		31	
QR19.87	W1995	Quaboag River	36-1390	8/19/08	10:58	Flowing	0.6		22.7		6.2		116		75		0.4		4	
QR19.87	W1995	Quaboag River	36-1560	9/10/08	13:14	Flowing	--		20.0		5.8		82		53		1.6		17	
QR19.87	W1995	Quaboag River	36-1552	9/22/08	12:50	Flowing	0.7		18.0		6.1		102		65		2.5		26	
QR19.87	W1995	Quaboag River	36-1512	9/23/08	11:01	Flowing	0.3		16.9		6.1		105		67		2.7		28	
QR19.87	W1995	Quaboag River	36-1553	9/24/08	11:22	Flowing	0.7		17.0		6.1		103		66		3.1		32	
QR20.74	W1867	Quaboag River	36-1471	9/5/08	14:32	Flowing	##	i	24.0		6.5		115		74		7.8		94	
QR20.74	W1867	Quaboag River	36-1472	9/10/08	12:51	Flowing	--		20.0	u	5.8		##	u	##	u	1.6		18	
QR21.96	W1994	Quaboag River	36-1468	9/5/08	13:43	Flowing	##	i	23.0		6.2		119		76		1.3		15	
QR21.96	W1994	Quaboag River	36-1469	9/10/08	12:06	Flowing	--		20.5		6.0		90		58		2.5		28	
QR22.07	W1993	Quaboag River	36-1549	9/22/08	13:45	Flowing	0.7		18.4		6.2		103		66		4.0		43	
QR22.07	W1993	Quaboag River	36-1550	9/24/08	11:52	Flowing	0.8		17.4		6.2		104		66		3.7		39	
QR23.34	W1992	Quaboag River	36-1480	9/5/08	13:01	Flowing	##	i	23.2		6.2		119		76		2.4		28	
QR23.34	W1992	Quaboag River	36-1546	9/22/08	13:24	Flowing	0.8		18.4		6.3		103		66		4.4		47	
QR23.34	W1992	Quaboag River	36-1547	9/24/08	12:17	Flowing	0.6		18.0		6.2		105		67		4.3		45	
QR23.66	W1991	Quaboag River	36-1479	9/5/08	12:24	Flowing	##	i	23.7		6.3		119		76		3.7		45	
QR23.66	W1991	Quaboag River	36-1465	9/5/08	12:43	Flowing	##	i	23.7		6.3		119		76		3.8		45	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
QR23.66	W1991	Quaboag River	36-1466	9/10/08	11:30	Flowing	--		20.6		6.1		96		62		2.9		33	
QRG	W0491	Quaboag River	36-0838	6/13/08	14:43	Flowing	0.3		25.3		7.5		121		78		8.3	i	101	i
QRG	W0491	Quaboag River	36-0839	6/16/08	12:00	Flowing	0.4		20.0		7.4		124		79		8.6		97	
QRG	W0491	Quaboag River	36-1093	7/18/08	12:40	Flowing	0.5		27.2		8.1		135		86		8.5		108	
QRG	W0491	Quaboag River	36-1094	7/21/08	13:26	Flowing	0.3		27.9		8.0		133		85		8.2		106	
QRG	W0491	Quaboag River	36-1266	8/15/08	12:05	Flowing	0.4		22.1		7.3		101		65		8.1		94	
QRG	W0491	Quaboag River	36-1267	8/18/08	10:42	Flowing	0.4		21.9		--		--		--		7.9		92	
SM01	W1036	Sevenmile River	36-0786	5/20/08	9:40	Flowing	0.2		11.2		6.5		125		81		9.6		88	
SM01	W1036	Sevenmile River	36-0823	6/13/08	9:24	Flowing	0.3		18.2		6.4		155		99		5.6	i	59	i
SM01	W1036	Sevenmile River	36-0824	6/16/08	9:36	Flowing	0.4		17.7		6.4		145		93		5.9		63	
SM01	W1036	Sevenmile River	36-1078	7/18/08	9:27	Flowing	0.3		22.0		6.5		171		109		5.0		57	
SM01	W1036	Sevenmile River	36-1079	7/21/08	9:39	Flowing	0.2		22.5		6.3		136		87		5.1		60	
SM01	W1036	Sevenmile River	36-1251	8/15/08	9:18	Flowing	0.1		19.4		6.5		141		90		5.9		65	
SM01	W1036	Sevenmile River	36-1252	8/18/08	9:31	Flowing	0.2		19.7		6.5		132		85		5.8		64	
SM01	W1036	Sevenmile River	36-1459	9/5/08	10:37	Flowing	##	i	20.3		6.4		173		111		5.0		56	
SM01	W1036	Sevenmile River	36-1460	9/10/08	9:50	Flowing	--		18.0		6.2		109		70		5.1		55	
SM32.6	W1876	Sevenmile River	36-0803	5/20/08	9:10	Flowing	0.6		11.1		6.5		115		75		10.7		97	
SM32.6	W1876	Sevenmile River	36-0961	6/17/08	8:49	Flowing	0.4		16.8		6.6		133		87		8.4		87	
SM32.6	W1876	Sevenmile River	36-1216	7/22/08	8:43	Flowing	0.7		21.7		6.4		129		83		6.0		70	
SM32.6	W1876	Sevenmile River	36-1389	8/19/08	9:10	Flowing	0.5		20.7		6.7		126		82		7.7		86	
SM32.6	W1876	Sevenmile River	36-1456	9/5/08	10:03	Flowing	##	i	18.8		6.4		121		77		5.7		61	
SM32.6	W1876	Sevenmile River	36-1457	9/10/08	9:26	Flowing	--		18.3		6.5		106		68		8.3		89	
SM32.6	W1876	Sevenmile River	36-1511	9/23/08	9:15	Flowing	0.7		13.0		6.4		112		72		9.0		85	
SMG	W0490	Sevenmile River	36-0820	6/13/08	8:55	Flowing	0.2		17.4		6.8		95		61		8.2	i	86	i
SMG	W0490	Sevenmile River	36-0821	6/16/08	9:09	Flowing	0.3		18.0		6.8		89		57		8.1		87	
SMG	W0490	Sevenmile River	36-1075	7/18/08	8:59	Flowing	0.1		20.2		7.0		103		66		8.1		91	
SMG	W0490	Sevenmile River	36-1076	7/21/08	9:06	Flowing	0.2		22.2		6.7		106		68		7.4		87	
SMG	W0490	Sevenmile River	36-1248	8/15/08	8:44	Flowing	0.1		18.7		6.7		80		52		7.9		86	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
SMG	W0490	Sevenmile River	36-1249	8/18/08	9:02	Flowing	0.2		18.9		6.7		81		52		7.6		83	
SR02	W1013	Swift River	36-0895	6/16/08	15:04	Flowing	0.6		17.2		6.7		49		32		9.4		100	
SR02	W1013	Swift River	36-0896	6/18/08	10:13	Flowing	0.7		16.3		6.5		50		32		9.6		100	
SR02	W1013	Swift River	36-1150	7/21/08	13:43	Flowing	--		19.1		6.8		53		34		9.1		100	
SR02	W1013	Swift River	36-1151	7/23/08	11:03	Flowing	--		17.4		6.7		53		34		9.2		97	
SR02	W1013	Swift River	36-1323	8/18/08	15:13	Flowing	--		19.6		6.8		55		35		8.9		99	
SR02	W1013	Swift River	36-1324	8/20/08	10:17	Flowing	--		17.3		6.7		54		35		9.6		101	
SR03	W1012	Swift River	36-0800	5/20/08	10:38	Flowing	1.0		10.9		6.5		47		30		10.9		101	
SR03	W1012	Swift River	36-0898	6/16/08	15:37	Flowing	1.3		16.2		6.7		48		31		10.0		104	
SR03	W1012	Swift River	36-0899	6/18/08	10:36	Flowing	1.2		15.0		6.4		48		31		9.7		98	
SR03	W1012	Swift River	36-1153	7/21/08	14:11	Flowing	--		13.7		6.5		52		33		11.1		109	
SR03	W1012	Swift River	36-1154	7/23/08	11:36	Flowing	--		13.6		6.3		59		38		9.5		92	
SR03	W1012	Swift River	36-1326	8/18/08	15:41	Flowing	--		17.3		6.8		51		33		10.5		111	
SR03	W1012	Swift River	36-1327	8/20/08	10:47	Flowing	--		14.8		6.4		52		33		9.3		93	
SRG	W0493	Swift River	36-0901	6/16/08	16:00	Flowing	0.5		16.2		6.7		46		30		9.8		101	
SRG	W0493	Swift River	36-0902	6/18/08	10:57	Flowing	0.5		15.9		6.5		47		30		9.5		98	
SRG	W0493	Swift River	36-1156	7/21/08	14:37	Flowing	--		13.6		6.5		48		31		10.5		104	
SRG	W0493	Swift River	36-1157	7/23/08	12:17	Flowing	--		13.5		6.5		52		33		10.4		102	
SRG	W0493	Swift River	36-1329	8/18/08	16:04	Flowing	--		17.6		6.6		49		32		9.6		102	
SRG	W0493	Swift River	36-1330	8/20/08	11:21	Flowing	--		15.3		6.6		49		32		10.2		103	
TUB33.95	W1856	Turkey Hill Brook	36-0817	6/13/08	8:30	Flowing	0.4		16.1		6.9		146		93		9.1	i	92	i
TUB33.95	W1856	Turkey Hill Brook	36-0818	6/16/08	8:49	Flowing	0.3		16.6		6.9		142		91		8.9		93	
TUB33.95	W1856	Turkey Hill Brook	36-1072	7/18/08	8:37	Flowing	0.3		19.0		7.1		135		87		8.7		95	
TUB33.95	W1856	Turkey Hill Brook	36-1073	7/21/08	8:43	Flowing	0.4		21.5		6.9		144		92		8.0		92	
TUB33.95	W1856	Turkey Hill Brook	36-1245	8/15/08	8:16	Flowing	0.1		20.0		7.1		136		87		8.4		93	
TUB33.95	W1856	Turkey Hill Brook	36-1246	8/18/08	8:38	Flowing	0.3		20.2		7.0		123		79		8.1		90	
TWB0.66	W1858	Twelvemile Brook	36-0847	6/16/08	15:19	Flowing	0.4		19.1		7.1		143		91		8.6		95	
TWB0.66	W1858	Twelvemile Brook	36-0848	6/18/08	10:04	Flowing	0.3		17.0		7.0		128		82		9.1		97	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
TWB0.66	W1858	Twelvemile Brook	36-1102	7/21/08	15:34	Flowing	0.2		25.1		7.1		163		104		7.9		98	
TWB0.66	W1858	Twelvemile Brook	36-1103	7/23/08	9:57	Flowing	0.2		22.9		6.8		105		67		8.1		96	
TWB0.66	W1858	Twelvemile Brook	36-1275	8/18/08	12:23	Flowing	0.2		20.7		--		--		--		7.9		90	
TWB0.66	W1858	Twelvemile Brook	36-1276	8/20/08	10:31	Flowing	0.2		17.0		7.0		106		68		9.3		98	
WA06A	W1009	Ware River	36-0795	5/20/08	12:19	Flowing	0.4		15.0		6.7		98		63		9.6		98	
WA06A	W1009	Ware River	36-0968	6/17/08	12:25	Flowing	0.2		20.8		7.3		122		78		9.3		106	
WA06A	W1009	Ware River	36-1223	7/22/08	12:24	Flowing	0.1		24.8		7.7		133		85		8.7		106	
WA06A	W1009	Ware River	36-1396	8/19/08	12:21	Flowing	--		20.8		7.0		102		66		8.6		98	
WA06A	W1009	Ware River	36-1450	8/29/08	11:02	Flowing	--		18.3		--		--		--		9.7		104	
WA06A	W1009	Ware River	36-1451	9/3/08	10:28	Flowing	--		19.4		--		--		--		9.5		105	
WA09A	W0492	Ware River	36-0892	6/16/08	14:32	Flowing	0.2		20.9		7.0		132		84		8.8		101	
WA09A	W0492	Ware River	36-0893	6/18/08	9:50	Flowing	0.3		18.5		6.9		123		79		8.8		96	
WA09A	W0492	Ware River	36-1147	7/21/08	13:10	Flowing	--		26.7		7.3		132		84		8.8		114	
WA09A	W0492	Ware River	36-1148	7/23/08	10:27	Flowing	--		24.2		6.9		125		80		7.6		92	
WA09A	W0492	Ware River	36-1320	8/18/08	14:43	Flowing	--		23.5		7.0		100		64		8.8		106	
WA09A	W0492	Ware River	36-1321	8/20/08	9:46	Flowing	--		19.3		6.9		105		67		8.8		97	
WA09A	W0492	Ware River	36-1453	8/29/08	10:23	Flowing	--		18.4		--		--		--		9.1		98	
WA09A	W0492	Ware River	36-1454	9/3/08	10:00	Flowing	--		19.9		--		--		--		9.0		100	
WA12	W1014	Ware River	36-0862	6/16/08	18:08	Flowing	0.2		21.1		7.0		132		84		8.2		94	
WA12	W1014	Ware River	36-0863	6/18/08	12:52	Flowing	0.3		20.3		7.1		130		83		8.8		100	
WA12	W1014	Ware River	36-1117	7/21/08	17:17	Flowing	--		27.0		7.3		143		91		7.7		99	
WA12	W1014	Ware River	36-1118	7/23/08	13:06	Flowing	0.4		24.5		6.9		129		82		7.7		93	
WA12	W1014	Ware River	36-1290	8/18/08	12:34	Flowing	0.3		22.3		6.8		103		66		7.9		92	
WA12	W1014	Ware River	36-1291	8/20/08	14:52	Flowing	--		21.6		7.0		109		70		8.6		99	
WAWVA	W1847	Ware River	36-0794	5/20/08	10:12	Flowing	0.9		13.2		6.1		88		56		8.8		87	
WAWVA	W1847	Ware River	36-0967	6/17/08	10:18	Flowing	0.4		19.9		6.4		116		74		8.2		92	
WAWVA	W1847	Ware River	36-1222	7/22/08	10:31	Flowing	0.6		25.4		6.5		113		72		6.7		84	
WAWVA	W1847	Ware River	36-1395	8/19/08	10:32	Flowing	--		21.4		6.3		80		51		7.7		89	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
WAWVA	W1847	Ware River	36-1517	9/23/08	10:13	Flowing	0.4		14.1		6.6		87		56		9.6		93	
WAX	W1008	Ware River	36-0886	6/16/08	13:23	Flowing	1.2		20.4		6.7		122		78		8.2		93	
WAX	W1008	Ware River	36-0887	6/18/08	8:45	Flowing	0.9		18.0		6.5		126		80		8.2		89	
WAX	W1008	Ware River	36-1141	7/21/08	11:59	Flowing	--		25.2		7.1		129		82		9.2		114	
WAX	W1008	Ware River	36-1142	7/23/08	9:05	Flowing	--		22.8		6.5		117		75		7.0		82	
WAX	W1008	Ware River	36-1314	8/18/08	13:38	Flowing	--		22.5		6.4		87		56		8.3		98	
WAX	W1008	Ware River	36-1315	8/20/08	8:35	Flowing	--		18.2		6.3		93		60		8.2		87	
WAX	W1008	Ware River	36-1444	8/29/08	11:49	Flowing	--		19.2		--		--		--		9.4		103	
WAX	W1008	Ware River	36-1445	9/3/08	11:12	Flowing	--		19.7		--		--		--		9.3		103	
WB0.04	W1999	Unnamed Tributary	36-1563	9/10/08	14:00	Flowing	--		21.9		6.5		71		46		6.5		76	
WR22.02	W1872	Ware River	36-0799	5/20/08	8:56	Flowing	1.0		12.7		6.5		105		67		9.4		91	
WR22.02	W1872	Ware River	36-0973	6/17/08	8:43	Flowing	0.4		19.1		6.5		130		83		7.2		79	
WR22.02	W1872	Ware River	36-1228	7/22/08	8:46	Flowing	0.3		25.3		6.7		140		91		6.4		78	
WR22.02	W1872	Ware River	36-1401	8/19/08	14:15	Flowing	0.5		21.7		6.8		111	u	72	u	8.0		91	
WR22.02	W1872	Ware River	36-1522	9/23/08	13:58	Flowing	0.6		15.1		6.7		118		76		9.2		92	
WR23.93	W2009	Ware River	36-1438	8/29/08	13:38	Flowing	--		19.6		--		--		--		6.7		74	
WR23.93	W2009	Ware River	36-1439	9/3/08	12:28	Flowing	--		19.4		--		--		--		6.5		71	
WR25.30	W2010	Ware River	36-1435	8/29/08	14:28	Flowing	--		19.7	u	--		--		--		7.3		80	
WR25.30	W2010	Ware River	36-1436	9/3/08	12:59	Flowing	--		19.9		--		--		--		7.2		81	
WR34	W1866	Ware River	36-0889	6/16/08	13:53	Flowing	0.5		19.8		7.1		121		78		8.8		98	
WR34	W1866	Ware River	36-0890	6/18/08	9:12	Flowing	0.5		17.7		6.9		124		80		8.9		95	
WR34	W1866	Ware River	36-1144	7/21/08	12:26	Flowing	--		25.4		7.2		125		80		8.0		101	
WR34	W1866	Ware River	36-1145	7/23/08	9:36	Flowing	--		22.5		6.7		117		75		7.4		87	
WR34	W1866	Ware River	36-1317	8/18/08	14:05	Flowing	--		22.8		6.8		90		57		8.4		98	
WR34	W1866	Ware River	36-1318	8/20/08	9:06	Flowing	--		17.6		6.7		100		64		8.9		94	
WR34	W1866	Ware River	36-1447	8/29/08	11:25	Flowing	--		18.6		--		--		--		9.5	u	103	u
WR34	W1866	Ware River	36-1448	9/3/08	10:49	Flowing	--		19.6		--		--		--		8.9		98	
WR39.16	W2011	Ware River	36-0883	6/13/08	12:15	Flowing	0.4		23.1		6.6		117		75		7.6		89	

Table 9 (continued). 2007 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Water Body	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
WR39.16	W2011	Ware River	36-0884	6/16/08	12:15	Flowing	0.5		20.6		6.6		125		80		7.2		82	
WR39.16	W2011	Ware River	36-1138	7/18/08	12:00	Flowing	--		24.2		6.6		118		76		7.5		91	
WR39.16	W2011	Ware River	36-1139	7/21/08	11:28	Flowing	--		24.6		6.7		133		85		7.1		87	
WR39.16	W2011	Ware River	36-1311	8/15/08	12:08	Flowing	--		20.6		6.3		82		53		7.8		89	
WR39.16	W2011	Ware River	36-1312	8/18/08	12:24	Flowing	--		21.9		6.3		86		55		8.0		92	
WR39.16	W2011	Ware River	36-1441	8/29/08	12:16	Flowing	--		19.5		--		--		--		8.7		96	
WR39.16	W2011	Ware River	36-1442	9/3/08	11:39	Flowing	--		19.5		--		--		--		8.0		89	

***see Appendix 2 for a complete list of data symbols and qualifiers**

Table 10. 2008 MassDEP Chicopee River Watershed summary of unattended probe temperature data

Station ID	Unique ID	Waterbody	OWMID	Flow Condition	Start Date	Deployment Duration (Hours)	Average (deg. C)	Minimum (deg. C)	Maximum (deg. C)	Mean of the Daily Maximum (deg. C)	Amount of Time > 20 deg. C (Hours)	Percentage of Time > 20 deg. C (%)	Amount of Time > 28.3 deg. C (Hours)	Average Daily Amount of Time > 20 deg. C (Hours)
103A	W1877	Ware River	36-0870	Flowing	6/13/08	72.0	21.0	18.3	24.1	23.1	51.1	71%	0.0	18.8
103A	W1877	Ware River	36-1125	Flowing	7/18/08	71.5	24.3	22.0	26.9	26.4	71.5	100%	0.0	24.0
103A	W1877	Ware River	36-1298	**	8/15/08	71.5	19.5	17.6	21.7	21.5	21.9	31%	0.0	9.5
BSR1.39	W1849	Burnshirt River	36-0867	Flowing	6/13/08	72.0	20.3	17.7	23.2	22.4	34.3	48%	0.0	11.3
BSR1.39	W1849	Burnshirt River	36-1122	Flowing	7/18/08	71.5	24.0	21.5	26.4	26.0	71.5	100%	0.0	24.0
BSR1.39	W1849	Burnshirt River	36-1295	Flowing	8/15/08	71.5	20.0	18.2	21.3	21.2	36.1	50%	0.0	11.6
CBG	W0494	Ware River	36-0876	Flowing	6/13/08	72.0	21.5	19.4	22.8	22.5	66.0	92%	0.0	24.0
CBG	W0494	Ware River	36-1131	Flowing	7/18/08	71.0	24.6	23.7	25.3	25.2	71.0	100%	0.0	24.0
CBG	W0494	Ware River	36-1304	Flowing	8/15/08	71.5	20.4	19.9	21.1	21.0	63.0	88%	0.0	19.8
CH01	W1033	Chicopee River	36-0855	Flowing	6/16/08	45.0	18.6	17.1	20.2	20.2	3.4	8%	0.0	3.4
CH01	W1033	Chicopee River	36-1110	Flowing	7/21/08	41.5	23.7	21.5	25.7	25.1	41.5	100%	0.0	24.0
CH01	W1033	Chicopee River	36-1283	Flowing	8/18/08	48.5	21.4	18.5	23.2	22.6	37.8	78%	0.0	24.0
CH06	W1031	Chicopee River	36-0849	Flowing	6/16/08	42.0	21.1	20.4	22.2	21.7	42.0	100%	0.0	24.0
CH06	W1031	Chicopee River	36-1104	Flowing	7/21/08	42.0	25.7	24.3	26.8	26.8	42.0	100%	0.0	24.0
CH06	W1031	Chicopee River	36-1277	Flowing	8/18/08	45.5	22.1	21.4	22.9	22.9	45.5	100%	0.0	24.0
CH13.43	W2005	Chicopee River	36-0852	Flowing	6/16/08	41.5	19.6	18.9	20.5	20.2	8.5	20%	0.0	5.3
CH13.43	W2005	Chicopee River	36-1280	Flowing	8/18/08	48.5	21.9	21.2	22.7	22.7	48.5	100%	0.0	24.0
CH13.43	W2005	Chicopee River	36-1107	Flowing	--	--	--	--	--	--	--	--	--	--
CHB1.73	W1854	Chicopee Brook	36-0843	Flowing	6/16/08	43.0	17.0	14.8	19.3	19.3	0.0	0%	0.0	0.0
CHB1.73	W1854	Chicopee Brook	36-1098	Flowing	7/21/08	42.0	22.7	20.4	25.7	24.3	42.0	100%	0.0	24.0
CHB1.73	W1854	Chicopee Brook	36-1271	Flowing	8/18/08	45.5	19.5	15.2	22.7	20.9	19.8	44%	0.0	8.1
CHB4.24	W1853	Chicopee Brook	36-0840	Flowing	6/16/08	43.0	16.5	14.7	18.1	18.1	0.0	0%	0.0	0.0
CHB4.24	W1853	Chicopee Brook	36-1095	Flowing	7/21/08	42.0	21.7	20.1	24.2	22.7	42.0	100%	0.0	24.0
CHB4.24	W1853	Chicopee Brook	36-1268	Flowing	8/18/08	45.5	18.9	15.0	21.4	20.3	12.3	27%	0.0	3.7
DB07	W1039	Forget-Me-Not Brook	36-0831	Flowing	6/13/08	71.0	18.1	15.8	20.7	19.5	11.8	17%	0.0	2.4
DB07	W1039	Forget-Me-Not Brook	36-1086	Flowing	7/18/08	72.0	22.1	19.8	24.6	24.3	68.9	96%	0.0	22.5
DB07	W1039	Forget-Me-Not Brook	36-1259	Flowing	8/15/08	70.0	18.7	16.5	20.5	20.5	11.7	17%	0.0	5.4

Table 10 (continued). 2008 MassDEP Chicopee River Watershed summary of unattended probe temperature data

Station ID	Unique ID	Waterbody	OWMID	Flow Condition	Start Date	Deployment Duration (Hours)	Average (deg. C)	Minimum (deg. C)	Maximum (deg. C)	Mean of the Daily Maximum (deg. C)	Amount of Time > 20 deg. C (Hours)	Percentage of Time > 20 deg. C (%)	Amount of Time > 28.3 deg. C (Hours)	Average Daily Amount of Time > 20 deg. C (Hours)
DB1.0	W1873	Dunn Brook	36-0834	Flowing	6/13/08	71.0	21.1	18.2	25.5	23.0	46.4	65%	0.0	17.2
DB1.0	W1873	Dunn Brook	36-1089	Flowing	7/18/08	71.5	24.3	21.9	27.2	26.9	71.5	100%	0.0	24.0
DB1.0	W1873	Dunn Brook	36-1262	Flowing	8/15/08	69.5	20.1	18.3	22.3	22.1	36.1	52%	0.0	11.9
DB1.0	W1873	Dunn Brook	36-1461	Flowing	9/5/08	118.5	19.9	16.2	24.4	21.0	58.0	49%	0.0	11.4
EB04	W1038	East Brookfield River	36-0825	Flowing	6/13/08	71.5	24.2	22.6	25.5	25.1	71.5	100%	0.0	24.0
EB04	W1038	East Brookfield River	36-1080	Flowing	7/18/08	71.5	26.4	25.7	27.5	27.2	71.5	100%	0.0	24.0
EB04	W1038	East Brookfield River	36-1253	Flowing	8/15/08	72.0	23.6	23.0	25.1	24.0	72.0	100%	0.0	24.0
EWB60.75	W1848	East Branch Ware River	36-0864	Flowing	6/13/08	72.0	20.6	17.8	24.8	23.1	37.1	52%	0.0	11.6
EWB60.75	W1848	East Branch Ware River	36-1119	Flowing	7/18/08	71.5	23.8	20.9	27.3	26.7	71.5	100%	0.0	24.0
EWB60.75	W1848	East Branch Ware River	36-1292	Flowing	8/15/08	71.5	20.7	18.5	23.0	22.7	47.5	66%	0.0	15.0
FMNB3.68	W1990	Forget-Me-Not Brook	36-0828	Flowing	6/13/08	71.0	17.4	15.0	21.1	19.0	10.0	14%	0.0	1.9
FMNB3.68	W1990	Forget-Me-Not Brook	36-1083	Flowing	7/18/08	71.5	21.1	18.0	23.4	23.3	55.3	77%	0.0	16.5
FMNB3.68	W1990	Forget-Me-Not Brook	36-1256	Flowing	8/15/08	70.0	18.4	16.0	20.6	20.6	9.5	14%	0.0	4.6
JAB7.84	W1874	Jabish Brook	36-0903	Flowing	6/16/08	42.5	15.6	13.2	17.5	17.5	0.0	0%	0.0	0.0
JAB7.84	W1874	Jabish Brook	36-1158	Flowing	7/21/08	45.0	20.6	19.4	23.2	23.2	23.9	53%	0.0	15.4
JAB7.84	W1874	Jabish Brook	36-1331	Flowing	8/18/08	42.5	17.7	14.0	20.4	19.2	2.8	7%	0.0	0.0
MB2.28	W1851	Moose Brook	36-0879	Flowing	6/13/08	71.5	20.9	19.1	23.4	22.8	51.5	72%	0.0	19.7
MB2.28	W1851	Moose Brook	36-1134	Flowing	7/18/08	71.5	24.3	22.5	25.7	25.7	71.5	100%	0.0	24.0
MB2.28	W1851	Moose Brook	36-1307	Flowing	8/15/08	71.5	20.9	19.2	22.5	22.1	61.2	86%	0.0	18.8
PR2.48	W1850	Prince River	36-0873	Flowing	6/13/08	72.0	17.8	15.7	21.5	19.8	9.2	13%	0.0	1.7
PR2.48	W1850	Prince River	36-1128	Flowing	7/18/08	71.5	21.4	19.1	24.3	23.8	62.7	88%	0.0	20.2
PR2.48	W1850	Prince River	36-1301	Flowing	8/15/08	71.5	18.9	17.0	20.6	20.6	12.1	17%	0.0	6.1
QA09A	W1015	Quaboag River	36-0858	Flowing	6/16/08	42.5	18.6	16.5	21.0	21.0	8.0	19%	0.0	8.0
QA09A	W1015	Quaboag River	36-1113	Flowing	7/21/08	43.5	24.0	21.3	27.0	26.0	43.5	100%	0.0	24.0
QA09A	W1015	Quaboag River	36-1286	Flowing	8/18/08	48.5	21.4	18.3	23.7	22.6	36.5	75%	0.0	24.0
QR19.62	W1996	Quaboag River	36-1545	Flowing	9/22/08	46.0	17.1	16.2	18.0	18.0	0.0	0%	0.0	0.0
QR19.87	W1995	Quaboag River	36-1548	Flowing	9/22/08	46.0	17.2	16.3	18.0	17.8	0.0	0%	0.0	0.0
QR20.74	W1867	Quaboag River	36-1470	Flowing	9/5/08	117.5	21.4	19.4	24.2	22.3	107.4	91%	0.0	24.0

Table 10 (continued). 2008 MassDEP Chicopee River Watershed summary of unattended probe temperature data

Station ID	Unique ID	Waterbody	OWMID	Flow Condition	Start Date	Deployment Duration (Hours)	Average (deg. C)	Minimum (deg. C)	Maximum (deg. C)	Mean of the Daily Maximum (deg. C)	Amount of Time > 20 deg. C (Hours)	Percentage of Time > 20 deg. C (%)	Amount of Time > 28.3 deg. C (Hours)	Average Daily Amount of Time > 20 deg. C (Hours)
QR21.96	W1994	Quaboag River	36-1467	Flowing	9/5/08	118.0	21.9	20.2	23.7	22.9	118.0	100%	0.0	24.0
QR22.07	W1993	Quaboag River	36-1551	Flowing	9/22/08	45.5	17.4	16.7	18.3	17.9	0.0	0%	0.0	0.0
QR23.34	W1992	Quaboag River	36-1554	Flowing	9/22/08	46.5	17.6	16.9	18.4	18.1	0.0	0%	0.0	0.0
QR23.66	W1991	Quaboag River	36-1464	Flowing	9/5/08	118.5	22.3	20.4	24.7	23.3	118.5	100%	0.0	24.0
QRG	W0491	Quaboag River	36-0837	Flowing	6/13/08	69.0	22.4	20.0	25.3	24.2	66.8	97%	0.0	24.0
QRG	W0491	Quaboag River	36-1092	Flowing	7/18/08	72.0	26.0	23.7	28.7	28.5	72.0	100%	3.2	24.0
QRG	W0491	Quaboag River	36-1265	Flowing	8/15/08	70.0	22.0	20.3	23.1	23.1	70.0	100%	0.0	24.0
SM01	W1036	Sevenmile River	36-0822	Flowing	6/13/08	72.0	20.6	17.7	24.4	23.0	34.5	48%	0.0	11.8
SM01	W1036	Sevenmile River	36-1077	Flowing	7/18/08	72.0	24.1	22.1	26.2	26.0	72.0	100%	0.0	24.0
SM01	W1036	Sevenmile River	36-1250	Flowing	8/15/08	72.0	20.6	18.8	22.4	22.3	47.7	66%	0.0	14.9
SM01	W1036	Sevenmile River	36-1458	Flowing	9/5/08	118.5	20.8	17.9	22.7	21.9	84.5	71%	0.0	17.9
SM32.6	W1876	Sevenmile River	36-1455	Flowing	9/5/08	118.5	20.6	18.3	22.8	21.8	89.9	76%	0.0	20.3
SMG	W0490	Sevenmile River	36-0819	Flowing	6/13/08	72.0	20.7	17.5	24.4	23.4	40.5	56%	0.0	14.6
SMG	W0490	Sevenmile River	36-1074	Flowing	7/18/08	72.0	22.9	20.1	25.1	25.1	72.0	100%	0.0	24.0
SMG	W0490	Sevenmile River	36-1247	Flowing	8/15/08	72.0	20.4	17.7	23.0	22.8	41.0	57%	0.0	12.7
SR02	W1013	Swift River	36-0894	Flowing	6/16/08	42.5	16.6	16.0	17.2	17.2	0.0	0%	0.0	0.0
SR02	W1013	Swift River	36-1149	Flowing	7/21/08	45.0	18.4	17.4	19.5	19.0	0.0	0%	0.0	0.0
SR02	W1013	Swift River	36-1322	Flowing	8/18/08	42.5	18.6	17.1	19.5	19.2	0.0	0%	0.0	0.0
SR03	W1012	Swift River	36-0897	Flowing	6/16/08	42.5	15.4	14.1	16.4	16.4	0.0	0%	0.0	0.0
SR03	W1012	Swift River	36-1152	Flowing	7/21/08	45.0	13.9	12.7	14.8	14.8	0.0	0%	0.0	0.0
SR03	W1012	Swift River	36-1325	Flowing	8/18/08	42.5	16.3	14.7	17.9	17.3	0.0	0%	0.0	0.0
SRG	W0493	Swift River	36-0900	Flowing	6/16/08	42.0	15.2	13.9	16.1	16.0	0.0	0%	0.0	0.0
SRG	W0493	Swift River	36-1155	Flowing	7/21/08	45.0	12.8	11.7	14.4	14.4	0.0	0%	0.0	0.0
SRG	W0493	Swift River	36-1328	Flowing	8/18/08	42.5	15.9	14.6	17.4	17.1	0.0	0%	0.0	0.0
TUB33.95	W1856	Turkey Hill Brook	36-0816	Flowing	6/13/08	71.5	18.2	16.3	20.9	19.8	11.7	16%	0.0	2.7
TUB33.95	W1856	Turkey Hill Brook	36-1071	Flowing	7/18/08	71.5	21.7	19.1	23.6	23.5	63.3	89%	0.0	20.9
TUB33.95	W1856	Turkey Hill Brook	36-1244	Flowing	8/15/08	72.0	21.3	19.7	22.8	22.7	67.8	94%	0.0	21.9
TWB0.66	W1858	Twelvemile Brook	36-0846	Flowing	6/16/08	42.5	18.9	16.8	21.0	21.0	10.1	24%	0.0	10.1

Table 10 (continued). 2008 MassDEP Chicopee River Watershed summary of unattended probe temperature data

Station ID	Unique ID	Waterbody	OWMID	Flow Condition	Start Date	Deployment Duration (Hours)	Average (deg. C)	Minimum (deg. C)	Maximum (deg. C)	Mean of the Daily Maximum (deg. C)	Amount of Time > 20 deg. C (Hours)	Percentage of Time > 20 deg. C (%)	Amount of Time > 28.3 deg. C (Hours)	Average Daily Amount of Time > 20 deg. C (Hours)
TWB0.66	W1858	Twelvemile Brook	36-1101	Flowing	7/21/08	41.5	23.6	21.8	25.7	25.1	41.5	100%	0.0	24.0
TWB0.66	W1858	Twelvemile Brook	36-1274	Flowing	8/18/08	46.0	20.7	16.9	22.9	22.1	34.3	74%	0.0	22.8
WA06A	W1009	Ware River	36-1449	Flowing	8/29/08	118.5	20.2	17.2	23.1	22.7	66.0	56%	0.0	13.2
WA09A	W0492	Ware River	36-0891	Flowing	6/16/08	42.5	19.5	17.6	21.7	21.7	17.0	40%	0.0	10.7
WA09A	W0492	Ware River	36-1146	Flowing	7/21/08	44.5	25.6	23.2	28.0	27.0	44.5	100%	0.0	24.0
WA09A	W0492	Ware River	36-1319	Flowing	8/18/08	42.5	21.5	18.9	23.8	22.8	35.7	84%	0.0	24.0
WA09A	W0492	Ware River	36-1452	Flowing	8/29/08	61.0	20.8	18.4	23.0	22.3	41.5	68%	0.0	14.4
WA12	W1014	Ware River	36-0861	Flowing	6/16/08	42.0	20.2	18.8	21.2	21.2	25.1	60%	0.0	17.5
WA12	W1014	Ware River	36-1116	Flowing	7/21/08	43.5	25.7	24.4	27.0	26.7	43.5	100%	0.0	24.0
WA12	W1014	Ware River	36-1289	Flowing	8/18/08	49.5	21.9	20.3	23.0	23.0	49.5	100%	0.0	24.0
WAX	W1008	Ware River	36-0885	Flowing	6/16/08	43.0	19.9	17.6	21.7	21.7	19.7	46%	0.0	11.5
WAX	W1008	Ware River	36-1140	Flowing	7/21/08	45.0	24.7	22.7	26.8	26.2	45.0	100%	0.0	24.0
WAX	W1008	Ware River	36-1313	Flowing	8/18/08	42.5	20.9	18.1	23.4	22.3	33.3	78%	0.0	23.3
WAX	W1008	Ware River	36-1443	Flowing	8/29/08	119.0	19.9	17.6	22.3	21.8	56.5	47%	0.0	10.9
WR23.93	W2009	Ware River	36-1437	Flowing	8/29/08	118.0	19.7	19.0	21.7	20.6	25.9	22%	0.0	6.5
WR25.30	W2010	Ware River	36-1434	Flowing	8/29/08	118.0	19.6	18.7	20.6	20.1	15.7	13%	0.0	3.8
WR34	W1866	Ware River	36-0888	Flowing	6/16/08	43.0	19.6	17.3	21.7	21.7	17.8	41%	0.0	11.8
WR34	W1866	Ware River	36-1143	Flowing	7/21/08	45.0	24.8	22.5	27.5	26.3	45.0	100%	0.0	24.0
WR34	W1866	Ware River	36-1316	Flowing	8/18/08	42.5	21.0	17.5	23.8	22.3	34.1	80%	0.0	24.0
WR34	W1866	Ware River	36-1446	Flowing	8/29/08	119.0	20.3	17.6	22.6	22.2	69.3	58%	0.0	13.8
WR39.16	W2011	Ware River	36-0882	Flowing	6/13/08	71.5	22.4	20.6	25.4	23.8	71.5	100%	0.0	24.0
WR39.16	W2011	Ware River	36-1137	Flowing	7/18/08	70.5	24.8	22.7	26.9	26.7	70.5	100%	0.0	24.0
WR39.16	W2011	Ware River	36-1310	Flowing	8/15/08	71.5	20.6	19.7	21.7	21.3	66.8	93%	0.0	21.7
WR39.16	W2011	Ware River	36-1440	Flowing	8/29/08	119.0	20.2	18.2	22.1	21.7	64.6	54%	0.0	13.0

(note the sampling interval for all unattended probes was 30 minutes)

Table 11. 2008 MassDEP Chicopee River Watershed summary of unattended probe dissolved oxygen data

Station ID	Unique ID	WaterBody	OWMID	Start Date	Deployment Duration (Hours)	Average (mg/L)	Minimum (mg/L)	Mean of the Daily Minimum (mg/L)	Amount of Time < 3.0 mg/L (Hours)	Amount of Time < 4.0 mg/L (Hours)	Amount of Time < 5.0 mg/L (Hours)	Amount of Time < 6.0 mg/L (Hours)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
103A	W1877	Ware River	Flowing	06/13/2008	72.0	8.0	7.5	7.5	0.0	0.0	0.0	0.0	90	85	98
103A	W1877	Ware River	Flowing	07/18/2008	71.5	6.8	6.3	6.4	0.0	0.0	0.0	0.0	83	74	90
103A	W1877	Ware River	**	08/15/2008	71.5	8.1	7.7	7.7	0.0	0.0	0.0	0.0	89	86	95
BSR1.39	W1849	Burnshirt River	Flowing	06/13/2008	72.0	8.1	7.7	7.7	0.0	0.0	0.0	0.0	90	87	96
BSR1.39	W1849	Burnshirt River	Flowing	07/18/2008	71.5	7.5	7.0	7.0	0.0	0.0	0.0	0.0	90	84	100
BSR1.39	W1849	Burnshirt River	Flowing	08/15/2008	71.5	8.2	7.9	7.9	0.0	0.0	0.0	0.0	92	89	97
CBG	W0494	Ware River	Flowing	06/13/2008	72.0	8.8	8.4	8.4	0.0	0.0	0.0	0.0	100	96	108
CBG	W0494	Ware River	Flowing	07/18/2008	70.5	7.7	7.4	7.5	0.0	0.0	0.0	0.0	94	90	100
CBG	W0494	Ware River	Flowing	08/15/2008	71.5	8.5	8.3	8.3	0.0	0.0	0.0	0.0	96	94	97
CH01	W1033	Chicopee River	Flowing	06/16/2008	45.0	8.6	8.2	8.2	0.0	0.0	0.0	0.0	92	88	97
CH01	W1033	Chicopee River	Flowing	07/21/2008	41.5	7.7	7.0	7.0	0.0	0.0	0.0	0.0	93	85	107
CH01	W1033	Chicopee River	Flowing	08/18/2008	48.5	7.6	7.3	7.3	0.0	0.0	0.0	0.0	88	84	93
CH06	W1031	Chicopee River	Flowing	06/16/2008	42.0	8.4	8.2	8.2	0.0	0.0	0.0	0.0	96	93	97
CH06	W1031	Chicopee River	Flowing	07/21/2008	42.0	7.1	6.8	6.8	0.0	0.0	0.0	0.0	89	85	94
CH06	W1031	Chicopee River	Flowing	08/18/2008	45.5	8.3	8.0	8.0	0.0	0.0	0.0	0.0	97	94	101
CH13.43	W2005	Chicopee River	Flowing	--	--	--	--	--	--	--	--	--	--	--	--
CH13.43	W2005	Chicopee River	Flowing	06/16/2008	41.5	7.8	7.3	7.3	0.0	0.0	0.0	0.0	85	81	93
CH13.43	W2005	Chicopee River	Flowing	08/18/2008	48.5	8.1	7.8	7.8	0.0	0.0	0.0	0.0	94	90	98
CHB1.73	W1854	Chicopee Brook	Flowing	06/16/2008	43.0	8.5	8.2	8.2	0.0	0.0	0.0	0.0	88	85	91
CHB1.73	W1854	Chicopee Brook	Flowing	07/21/2008	42.0	7.4	6.6	6.6	0.0	0.0	0.0	0.0	87	76	101
CHB1.73	W1854	Chicopee Brook	Flowing	08/18/2008	45.5	8.3	7.8	7.8	0.0	0.0	0.0	0.0	92	86	103
CHB4.24	W1853	Chicopee Brook	Flowing	06/16/2008	43.0	9.1	8.2	8.2	0.0	0.0	0.0	0.0	93	87	98
CHB4.24	W1853	Chicopee Brook	Flowing	07/21/2008	42.0	7.8	7.2	7.2	0.0	0.0	0.0	0.0	90	83	95
CHB4.24	W1853	Chicopee Brook	Flowing	08/18/2008	45.5	8.6	8.2	8.3	0.0	0.0	0.0	0.0	94	92	96
DB07	W1039	Forget-Me-Not Brook	Flowing	06/13/2008	71.0	7.9	6.5	7.2	0.0	0.0	0.0	0.0	84	71	93

Table 11 (continued). 2008 MassDEP Chicopee River Watershed summary of unattended probe dissolved oxygen data

Station ID	Unique ID	WaterBody	OWMID	Start Date	Deployment Duration (Hours)	Average (mg/L)	Minimum (mg/L)	Mean of the Daily Minimum (mg/L)	Amount of Time < 3.0 mg/L (Hours)	Amount of Time < 4.0 mg/L (Hours)	Amount of Time < 5.0 mg/L (Hours)	Amount of Time < 6.0 mg/L (Hours)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
DB07	W1039	Forget-Me-Not Brook	Flowing	07/18/2008	72.0	7.3	6.7	6.7	0.0	0.0	0.0	0.0	85	79	95
DB07	W1039	Forget-Me-Not Brook	Flowing	08/15/2008	70.0	8.2	7.7	7.7	0.0	0.0	0.0	0.0	89	86	94
DB1.0	W1873	Dunn Brook	Flowing	06/13/2008	71.0	3.2	1.8	1.8	35.9	52.3	64.0	71.0	37	20	72
DB1.0	W1873	Dunn Brook	Flowing	07/18/2008	71.5	0.6	0.2	0.2	71.5	71.5	71.5	71.5	8	2	21
DB1.0	W1873	Dunn Brook	Flowing	08/15/2008	69.5	2.7	1.4	1.8	45.5	61.3	69.5	69.5	30	15	55
DB1.0	W1873	Dunn Brook	Flowing	09/05/2008	118.5	3.4	1.2	2.2	44.5	97.6	105.8	114.7	38	14	81
EB04	W1038	East Brookfield River	Flowing	06/13/2008	71.5	7.5	7.2	7.4	0.0	0.0	0.0	0.0	90	87	93
EB04	W1038	East Brookfield River	Flowing	07/18/2008	71.5	6.0	5.6	5.6	0.0	0.0	0.0	43.1	75	70	83
EB04	W1038	East Brookfield River	Flowing	08/15/2008	72.0	7.9	7.2	7.3	0.0	0.0	0.0	0.0	94	86	98
EWB60.75	W1848	East Branch Ware River	Flowing	06/13/2008	0.0	--	--	--	--	--	--	--	--	--	--
EWB60.75	W1848	East Branch Ware River	Flowing	07/18/2008	71.5	7.1	6.4	6.5	0.0	0.0	0.0	0.0	85	76	96
EWB60.75	W1848	East Branch Ware River	Flowing	08/15/2008	71.5	7.4	7.0	7.0	0.0	0.0	0.0	0.0	84	79	91
FMNB3.68	W1990	Forget-Me-Not Brook	Flowing	06/13/2008	71.0	8.3	7.5	7.7	0.0	0.0	0.0	0.0	87	82	93
FMNB3.68	W1990	Forget-Me-Not Brook	Flowing	07/18/2008	71.5	7.9	7.2	7.2	0.0	0.0	0.0	0.0	90	84	100
FMNB3.68	W1990	Forget-Me-Not Brook	Flowing	08/15/2008	70.0	8.4	8.0	8.0	0.0	0.0	0.0	0.0	90	87	95
JAB7.84	W1874	Jabish Brook	Flowing	06/16/2008	42.5	9.2	8.8	8.9	0.0	0.0	0.0	0.0	93	91	94
JAB7.84	W1874	Jabish Brook	Flowing	07/21/2008	45.0	8.3	7.8	7.9	0.0	0.0	0.0	0.0	94	91	97
JAB7.84	W1874	Jabish Brook	Flowing	08/18/2008	42.5	8.9	8.4	8.6	0.0	0.0	0.0	0.0	95	94	97
MB2.28	W1851	Moose Brook	Flowing	06/13/2008	71.5	8.2	7.7	7.8	0.0	0.0	0.0	0.0	92	91	95
MB2.28	W1851	Moose Brook	Flowing	07/18/2008	71.5	7.7	7.4	7.4	0.0	0.0	0.0	0.0	93	91	95
MB2.28	W1851	Moose Brook	Flowing	08/15/2008	71.5	8.4	8.2	8.2	0.0	0.0	0.0	0.0	97	96	98
PR2.48	W1850	Prince River	Flowing	06/13/2008	72.0	8.4	7.7	7.7	0.0	0.0	0.0	0.0	88	83	99
PR2.48	W1850	Prince River	Flowing	07/18/2008	71.5	7.4	6.5	6.6	0.0	0.0	0.0	0.0	85	75	100
PR2.48	W1850	Prince River	Flowing	08/15/2008	71.5	8.4	8.0	8.1	0.0	0.0	0.0	0.0	92	89	96
QA09A	W1015	Quaboag River	Flowing	06/16/2008	42.5	8.1	7.6	7.6	0.0	0.0	0.0	0.0	87	81	96
QA09A	W1015	Quaboag River	Flowing	07/21/2008	43.5	7.4	6.2	6.2	0.0	0.0	0.0	0.0	90	76	111

Table 11 (continued). 2008 MassDEP Chicopee River Watershed summary of unattended probe dissolved oxygen data

Station ID	Unique ID	WaterBody	OWMID	Start Date	Deployment Duration (Hours)	Average (mg/L)	Minimum (mg/L)	Mean of the Daily Minimum (mg/L)	Amount of Time < 3.0 mg/L (Hours)	Amount of Time < 4.0 mg/L (Hours)	Amount of Time < 5.0 mg/L (Hours)	Amount of Time < 6.0 mg/L (Hours)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
QA09A	W1015	Quaboag River	Flowing	08/18/2008	48.5	8.0	7.4	7.4	0.0	0.0	0.0	0.0	91	86	100
QR19.62	W1996	Quaboag River	Flowing	09/22/2008	46.0	3.2	2.8	2.9	21.2	46.0	46.0	46.0	33	29	41
QR19.87	W1995	Quaboag River	Flowing	09/22/2008	46.0	2.8	2.4	2.4	33.3	46.0	46.0	46.0	30	25	35
QR20.74	W1867	Quaboag River	Flowing	09/05/2008	117.5	1.7	0.3	0.5	100.6	105.1	111.5	114.7	19	4	93
QR21.96	W1994	Quaboag River	Flowing	09/05/2008	118.0	1.8	0.9	1.1	109.6	118.0	118.0	118.0	21	10	45
QR22.07	W1993	Quaboag River	Flowing	09/22/2008	45.5	3.7	3.0	3.2	1.7	30.9	45.5	45.5	39	31	47
QR23.34	W1992	Quaboag River	Flowing	09/22/2008	46.5	4.2	3.5	3.9	0.0	10.5	46.5	46.5	44	37	49
QR23.66	W1991	Quaboag River	Flowing	09/05/2008	118.5	3.3	1.9	2.4	41.3	97.0	115.1	118.5	38	22	70
QRG	W0491	Quaboag River	Flowing	06/13/2008	69.0	8.1	7.4	7.5	0.0	0.0	0.0	0.0	94	88	105
QRG	W0491	Quaboag River	Flowing	07/18/2008	72.0	7.5	6.8	6.8	0.0	0.0	0.0	0.0	94	85	110
QRG	W0491	Quaboag River	Flowing	08/15/2008	70.0	8.1	7.7	7.7	0.0	0.0	0.0	0.0	94	91	97
SM01	W1036	Sevenmile River	Flowing	06/13/2008	72.0	6.1	5.1	5.2	0.0	0.0	0.0	36.5	68	57	89
SM01	W1036	Sevenmile River	Flowing	07/18/2008	72.0	6.7	3.7	4.2	0.0	4.2	19.2	33.0	82	44	132
SM01	W1036	Sevenmile River	Flowing	08/15/2008	72.0	5.7	4.5	4.9	0.0	0.0	8.6	51.7	64	50	78
SM01	W1036	Sevenmile River	Flowing	09/05/2008	118.5	4.8	3.8	4.2	0.0	9.2	81.1	114.7	54	43	78
SM32.6	W1876	Sevenmile River	Flowing	09/05/2008	118.5	7.3	5.4	6.9	0.0	0.0	0.0	13.8	82	61	92
SMG	W0490	Sevenmile River	Flowing	06/13/2008	72.0	7.6	7.0	7.0	0.0	0.0	0.0	0.0	85	82	91
SMG	W0490	Sevenmile River	Flowing	07/18/2008	72.0	7.1	6.0	6.3	0.0	0.0	0.0	0.0	83	69	92
SMG	W0490	Sevenmile River	Flowing	08/15/2008	72.0	7.4	7.1	7.1	0.0	0.0	0.0	0.0	84	80	90
SR02	W1013	Swift River	Flowing	06/16/2008	42.5	9.6	9.6	9.6	0.0	0.0	0.0	0.0	99	99	101
SR02	W1013	Swift River	Flowing	07/21/2008	45.0	9.2	8.9	8.9	0.0	0.0	0.0	0.0	99	96	102
SR02	W1013	Swift River	Flowing	08/18/2008	42.5	9.2	9.0	9.0	0.0	0.0	0.0	0.0	100	98	103
SR03	W1012	Swift River	Flowing	06/16/2008	42.5	9.5	9.0	9.1	0.0	0.0	0.0	0.0	96	90	104
SR03	W1012	Swift River	Flowing	07/21/2008	45.0	10.1	8.7	9.0	0.0	0.0	0.0	0.0	99	85	113
SR03	W1012	Swift River	Flowing	08/18/2008	42.5	9.3	8.3	8.3	0.0	0.0	0.0	0.0	97	85	115
SRG	W0493	Swift River	Flowing	06/16/2008	42.0	9.6	9.4	9.4	0.0	0.0	0.0	0.0	96	94	100

Table 11 (continued). 2008 MassDEP Chicopee River Watershed summary of unattended probe dissolved oxygen data

Station ID	Unique ID	WaterBody	OWMID	Start Date	Deployment Duration (Hours)	Average (mg/L)	Minimum (mg/L)	Mean of the Daily Minimum (mg/L)	Amount of Time < 3.0 mg/L (Hours)	Amount of Time < 4.0 mg/L (Hours)	Amount of Time < 5.0 mg/L (Hours)	Amount of Time < 6.0 mg/L (Hours)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
SRG	W0493	Swift River	Flowing	07/21/2008	45.0	10.4	9.7	9.7	0.0	0.0	0.0	0.0	100	96	105
SRG	W0493	Swift River	Flowing	08/18/2008	42.5	9.6	9.3	9.3	0.0	0.0	0.0	0.0	100	96	107
TUB33.95	W1856	Turkey Hill Brook	Flowing	06/13/2008	71.5	8.7	8.2	8.3	0.0	0.0	0.0	0.0	93	90	96
TUB33.95	W1856	Turkey Hill Brook	Flowing	07/18/2008	71.5	8.2	7.8	7.8	0.0	0.0	0.0	0.0	95	92	100
TUB33.95	W1856	Turkey Hill Brook	Flowing	08/15/2008	72.0	8.3	8.0	8.0	0.0	0.0	0.0	0.0	95	94	97
TWB0.66	W1858	Twelvemile Brook	Flowing	06/16/2008	42.5	8.6	8.1	8.1	0.0	0.0	0.0	0.0	93	90	96
TWB0.66	W1858	Twelvemile Brook	Flowing	07/21/2008	41.5	7.9	7.5	7.5	0.0	0.0	0.0	0.0	95	91	100
TWB0.66	W1858	Twelvemile Brook	Flowing	08/18/2008	46.0	8.3	7.9	7.9	0.0	0.0	0.0	0.0	94	92	97
WA06A	W1009	Ware River	Flowing	08/29/2008	118.5	8.7	7.7	7.9	0.0	0.0	0.0	0.0	97	88	112
WA09A	W0492	Ware River	Flowing	06/16/2008	42.5	8.4	7.9	7.9	0.0	0.0	0.0	0.0	92	83	106
WA09A	W0492	Ware River	Flowing	07/21/2008	44.5	7.4	6.1	6.1	0.0	0.0	0.0	0.0	92	74	115
WA09A	W0492	Ware River	Flowing	08/18/2008	42.5	8.2	7.6	7.6	0.0	0.0	0.0	0.0	95	88	109
WA09A	W0492	Ware River	Flowing	08/29/2008	61.0	8.9	7.5	7.6	0.0	0.0	0.0	0.0	101	83	122
WA12	W1014	Ware River	Flowing	06/16/2008	42.0	8.5	8.2	8.2	0.0	0.0	0.0	0.0	94	92	99
WA12	W1014	Ware River	Flowing	07/21/2008	43.5	7.4	6.9	6.9	0.0	0.0	0.0	0.0	92	87	100
WA12	W1014	Ware River	Flowing	08/18/2008	49.5	8.0	7.7	7.7	0.0	0.0	0.0	0.0	93	91	99
WAX	W1008	Ware River	Flowing	06/16/2008	0.0	--	--	--	--	--	--	--	--	--	--
WAX	W1008	Ware River	Flowing	07/21/2008	45.0	7.5	5.9	5.9	0.0	0.0	0.0	2.3	92	71	120
WAX	W1008	Ware River	Flowing	08/18/2008	42.5	7.8	7.3	7.3	0.0	0.0	0.0	0.0	89	84	99
WAX	W1008	Ware River	Flowing	08/29/2008	119.0	8.4	7.2	7.6	0.0	0.0	0.0	0.0	94	79	115
WR23.93	W2009	Ware River	Flowing	08/29/2008	118.0	6.3	5.1	5.8	0.0	0.0	0.0	22.1	70	56	81
WR25.30	W2010	Ware River	Flowing	08/29/2008	118.0	7.1	6.5	6.6	0.0	0.0	0.0	0.0	78	72	88
WR34	W1866	Ware River	Flowing	06/16/2008	43.0	8.5	8.3	8.3	0.0	0.0	0.0	0.0	93	89	99
WR34	W1866	Ware River	Flowing	07/21/2008	45.0	7.6	7.2	7.3	0.0	0.0	0.0	0.0	94	85	102
WR34	W1866	Ware River	Flowing	08/18/2008	42.5	8.2	7.9	7.9	0.0	0.0	0.0	0.0	94	91	99
WR34	W1866	Ware River	Flowing	08/29/2008	119.0	8.5	8.1	8.1	0.0	0.0	0.0	0.0	95	90	102

Table 11 (continued). 2008 MassDEP Chicopee River Watershed summary of unattended probe dissolved oxygen data

Station ID	Unique ID	WaterBody	OWMID	Start Date	Deployment Duration (Hours)	Average (mg/L)	Minimum (mg/L)	Mean of the Daily Minimum (mg/L)	Amount of Time < 3.0 mg/L (Hours)	Amount of Time < 4.0 mg/L (Hours)	Amount of Time < 5.0 mg/L (Hours)	Amount of Time < 6.0 mg/L (Hours)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
WR39.16	W2011	Ware River	Flowing	06/13/2008	71.5	7.4	6.8	6.8	0.0	0.0	0.0	0.0	85	77	102
WR39.16	W2011	Ware River	Flowing	07/18/2008	70.5	7.1	5.9	6.0	0.0	0.0	0.0	8.2	88	71	115
WR39.16	W2011	Ware River	Flowing	08/15/2008	71.5	8.1	7.7	7.9	0.0	0.0	0.0	0.0	91	87	95
WR39.16	W2011	Ware River	Flowing	08/29/2008	119.0	7.8	7.0	7.1	0.0	0.0	0.0	0.0	88	77	104

(note the sampling interval for all unattended probes was 30 minutes)

Table 12: 2008 MassDEP Chicopee River Watershed continuous temperature deploy data

Deploy Details								Temperature									
Station ID	Unique ID	Water Body	OWMID	Start Date	End Date	Sampling Interval	Total Deployment (Hours)	Average (deg. C)	Standard Deviation	Minimum(deg. C)	Maximum (deg. C)	Mean of the Daily Max (deg. C)	Range of 7-Day Avg of the Daily Max (deg. C)	Maximum Weekly Average Temperature (deg. C)	Amount of Time > 20 deg. C (Hours)	Average Daily Amount of Time > 20 deg. C (Hours)	Average Daily Amount of Time > 28.3 deg. C (Hours)
103A	W1877	Ware River	36-1608	06/18/2008	09/26/2008	30	2394.5	20.4	2.8	11.6	27.3	22.0	15.5-26.2	24.2	1442.8	14.6	0.0
BOB0.25	W1855	Bottle Brook	36-1580	06/10/2008	09/26/2008	30	2480.5	16.9	1.9	10.1	20.9	17.9	15.0-20.6	19.2	93.4	0.9	0.0
CBG	W0494	Ware River	36-1605	06/18/2008	09/26/2008	30	2392.5	20.5	2.6	13.3	26.6	21.5	15.3-25.5	24.1	1553.5	15.7	0.0
CH06	W1031	Chicopee River	36-1611	06/02/2008	09/30/2008	15	2880.3	21.6	2.5	15.7	27.3	22.3	16.9-26.7	25.6	2221.1	18.7	0.0
CHB1.73	W1854	Chicopee Brook	36-1596	06/10/2008	09/26/2008	30	2593.5	19.2	2.7	11.4	27.0	21.0	15.4-25.1	22.8	971.1	9.0	0.0
CHB2.482	W2004	Chicopee Brook	36-1593	06/02/2008	09/26/2008	30	2781.0	19.2	2.9	11.2	27.7	21.4	15.5-26.3	23.3	1062.7	9.2	0.0
CHB2.544	W2003	Chicopee Brook	36-1589	06/02/2008	09/26/2008	30	2781.0	19.2	2.9	11.2	27.7	21.4	15.5-26.4	23.2	1039.5	9.0	0.0
CHB3.0	W2002	Chicopee Brook	36-1586	06/02/2008	09/26/2008	30	2783.0	18.2	2.4	11.0	24.5	19.6	13.1-22.6	21.0	578.4	5.0	0.0
CHB4.24	W1853	Chicopee Brook	36-1583	06/02/2008	09/26/2008	30	2783.0	18.4	2.5	11.0	25.1	20.1	14.7-23.8	21.3	712.1	6.2	0.0
KIB0.17	W1864	Kings Brook	36-1602	06/02/2008	09/26/2008	30	2778.0	17.4	2.4	10.8	22.7	18.7	13.3-21.4	20.3	372.4	3.2	0.0
PEB0.48	W1863	Penny Brook	36-1599	06/10/2008	09/26/2008	30	2590.5	17.3	2.3	10.0	22.5	18.6	13.3-21.1	19.8	243.7	2.2	0.0
POBDIS	W2006	Unnamed Tributary	36-1617	06/10/2008	10/17/2008	30	3095.5	16.9	2.7	7.7	25.9	21.9	18.2-24.3	18.5	331.6	2.6	0.0
POBDWN	W2008	Unnamed Tributary	36-1614	06/10/2008	10/17/2008	30	3096.0	17.7	2.8	10.1	25.5	19.0	12.9-23.1	21.1	609.7	4.7	0.0
POBUP	W2007	Unnamed Tributary	36-1620	06/10/2008	10/17/2008	30	3095.5	17.7	2.7	10.3	25.4	18.9	13.1-23.2	21.2	602.7	4.6	0.0

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Appendix 1: Results of 2008 MassDEP side-by-side sampling with DCR

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List of Tables and Figures

Introduction

Water quality sampling was conducted side-by-side with the Department of Conservation and Recreation (DCR), Office of Watershed Management, Quabbin/Ware River Section, staff during 2008 DWM sampling. This appendix summarizes the results of this side-by-side sampling. DCR conducts extensive sampling in the Quabbin Watershed and this data when quality assured will be valuable for use by MassDEP in water quality assessment. The side-by-side sampling was conducted to gauge the quality of water quality data generated by the DCR.

Sampling

MassDEP sampling crews performed side-by-side sampling for water quality on the following dates: July 1st, September 30th, November 18th, and December 2nd. Water quality samples for total phosphorus, total nitrogen, ammonia-nitrogen, nitrate-nitrite-nitrogen, color and turbidity, were obtained on all sampling dates Water quality samples for *E.coli* were collected on all dates with the exception of November 18th. *In-situ* side-by-side measurements of temperature, dissolved oxygen, pH, and conductivity were collected on two dates, July 1st and December 2nd (Table 1). MassDEP sampling crews conducted concurrent sampling with Peter Deslauriers from the DCR.

Field and Analytical Methods

Procedures used for DWM water sampling and sample handling are described in the *Sample Collection Techniques for DWM Surface Water Quality Monitoring* (MassDEP 2004). The Wall Experiment Station (WES) in Lawrence, MA, supplied all sample bottles and field preservatives, which were prepared according to the WES *Laboratory Quality Assurance Plan and Standard Operating Procedures* (MassDEP 2001). Procedures for multi-probe calibration and deployment are described in *Water Quality Multi-probe Data Collection* (MassDEP 2005b)

Wade-in grab samples were also collected and sent to Wall Experiment Station (WES) in Lawrence, MA where they were analyzed for low-level total phosphorus (TP), total nitrogen (TN), ammonia as nitrogen (NH_3-N) and nitrate-nitrite (NO2-NO3) as nitrogen, as appropriate. *E. coli* bacteria samples were analyzed at Test America Laboratories Inc. in Westfield, MA. Color and turbidity were analyzed at the DWM laboratory in Worcester, MA. *In- situ* parameters measured using a multi-probe included dissolved oxygen, percent saturation, pH, conductivity, temperature, and total dissolved solids.

Concurrent with the collection of water quality samples, site characteristics and sampling conditions were recorded on DWM field sheets. Riparian vegetation, observed uses, potential pollution sources, the presence/absence of objectionable deposits (trash, debris and scum), the extent of periphyton/algae/aquatic plant growth within the sampling reach, and sampling conditions were all noted at each station (Table 2).

DCR field and analytical methods are described in *Water Quality Report:2008 Quabbin Reservoir Watershed, Ware River Watershed* (DCR 2009).

Quality Assurance and Quality Control

Monitoring data collected as part of the 2008 Chicopee River Watershed sampling project have generally met the specific programmatic data quality objectives (DQOs) outlined in the applicable quality assurance project plan (MassDEP 2005a) or have met data validation criteria sufficient for publication. The ammonia-N and nitrate-nitrite-N water quality sample data collected on September 30th were censored due to a holding time violation. The samples were left in the DWM sample refrigerator and not delivered

to the WES in a timely manner. Quality assurance for watershed monitoring by the DWM is provided to ensure implementation of an effective and efficient sampling design, and to provide data to meet specific data quality objectives.

DWM quality assurance and database management staff reviewed lab data reports and all multi-probe data. The data were validated and finalized per appropriate data validation procedures as outlined in *DWM Water Quality Data Validation Process (Summary)* (MassDEP 2012a). Detailed data validation procedures for laboratory data and attended multi-probe data were conducted using appropriate procedures (MassDEP 2012b, MassDEP 2012c) A complete summary of the review process for all 2008 DWM data is provided in the *Water Quality Data Validation Report for Year 2008 Project Data* (MassDEP 2012d). Appendix 2 of this technical memorandum contains definitions for all data qualifiers (MassDEP 2012d).

Table 1. 2008 Chicopee River Watershed Sampling Stations - Side-by-side Sampling with DCR

Unique ID	DEP Station ID	DCR Station ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen, Total Phosphorus, Ammonia-N	Nitrate/Nitrite-N	Bacteria	Color, Turbidity	Attended Multiprobe
W2020	215	215	East Branch Fever Brook	[West Street, Petersham]	42.4879	-72.2165	X	X	X	X	X
W2021	215B	215B	West Branch Fever Brook	[approximately 200 feet upstream of road crossing of the restricted portion of Monson Turnpike, Petersham]	42.4684	-72.2588	X	X	X	X	X
W2022	215F	215F	East Branch Fever Brook	[at old dam, approximately 50 feet upstream of unnamed trail/road crossing northeast of Rattlesnake Hill, Petersham]	42.4626	-72.2456	X	X	X	X	X
W2025	216	216	East Branch Swift River	[Route 32A (Hardwick Road), Petersham]	42.4382	-72.2073	X	X	X	X	X
W2023	216G	216G	Unnamed Tributary	[unnamed tributary to the East Branch Swift River, East Street, Petersham]	42.4909	-72.1710	X	X	X	X	X
W2024	216I-X	216I-X	Moccasin Brook	[approximately 150 feet above confluence with East Branch Swift River, Petersham]	42.4716	-72.1621					X
W2054	BC	BC	Unnamed Tributary	[unnamed tributary to Quabbin Reservoir locally known as "Boat Cove Brook" northeast of Windsor Dam, Administration Road crossing, Ware (tributary not apparent on 1967 Windsor Dam USGS quad)]	42.2909	-72.3372	X	X	X	X	X
W0494	CBG*	101	Ware River	[south of Route 122 at weir downstream of Shaft #8 water supply intake, Barre.]	42.3912	-72.0646	X	X	X	X	
W2019	121	121	Mill Brook	[downstream at Charnock Hill Road, Rutland]	42.3906	-71.9824	X	X	X	X	
W2018	108	108	East Branch Ware River	[Intervale Road, Rutland]	42.4038	-71.9913	X	X	X	X	
W2017	107A	107A	West Branch Ware River	[Brigham Road, Hubbardson]	42.4357	-72.0172	X	X	X	X	

Table 1 (continued). 2008 Chicopee River Watershed Sampling Stations - Side-by-side Sampling with DCR

Unique ID	DEP Station ID	DCR Station ID	Waterbody	Description	Latitude	Longitude	Total Nitrogen, Total Phosphorus, Ammonia-N	Nitrate/Nitrite-N	Bacteria	Color, Turbidity	Attended Multiprobe
W2016	105	105	Ware River	[near the storm debris collector ("log boom") upstream of the Barre Falls Dam, Barre]	42.4288	-72.0250	X	X	X	X	
W2015	BSR0.01	103A	Canesto Brook	[approximately 70 feet upstream from confluence with Ware River, Barre]	42.4213	-72.0481	X	X	X	X	

*also Central Regional Office Strategic Monitoring and Assessment for River basin Teams (SMART) station

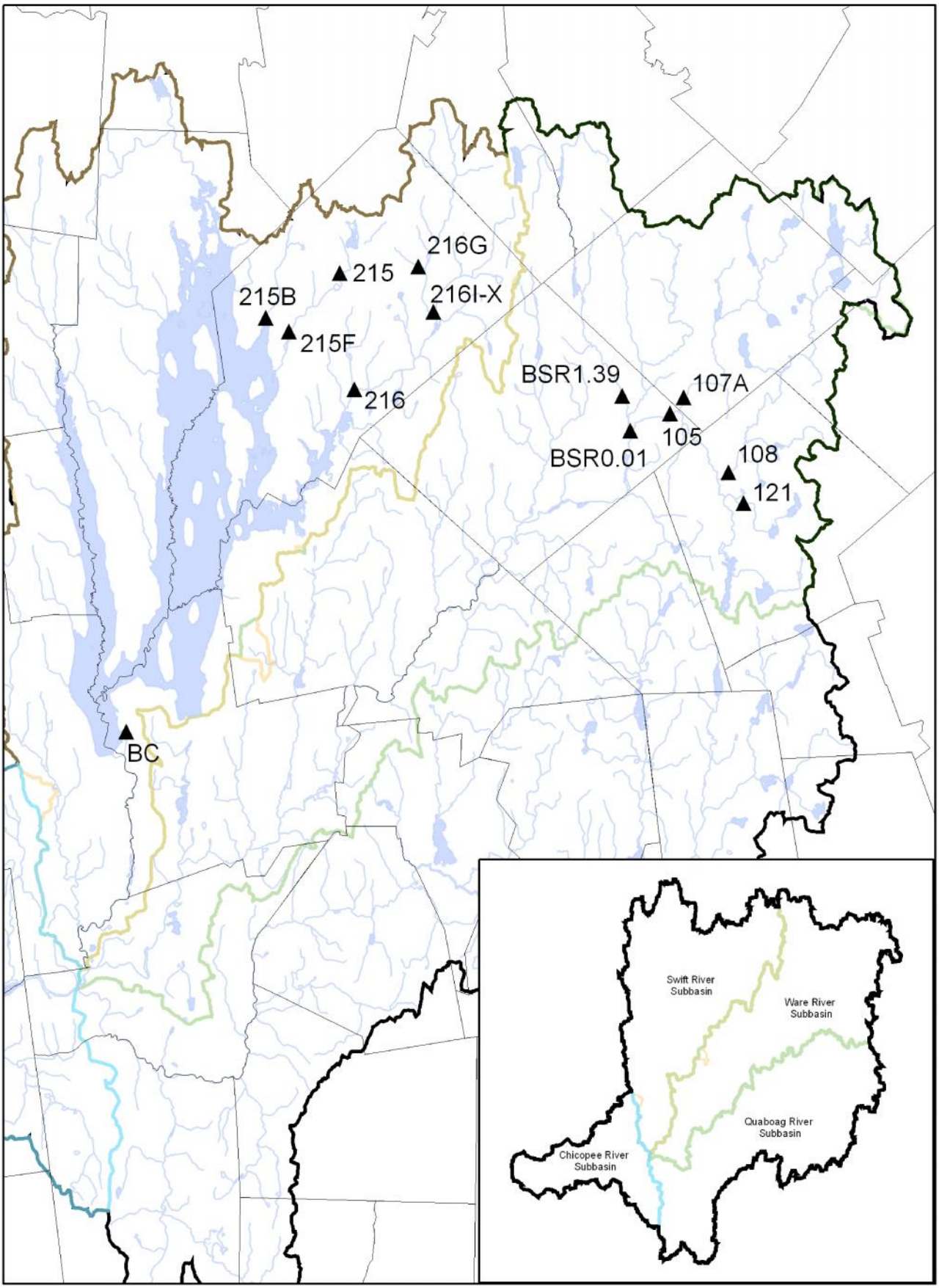

Figure 1. MassDEP DWM 2008 Side-by-side Sampling Locations in the Chicopee River Watershed and Chicopee River Watershed Subbasins

Station Observations

Station observations were recorded on field sheets for each survey by a DWM investigator. Station observations are described below in Table 2 for each DWM sampling event (MassDEP 2008). Note: If multiple types of periphyton were observed, the highest observed density is used in this table.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded

Table 2. 2008 Field observations from MassDEP DWM surveys

Unique ID	Station ID	Date	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
W2020	215	7/1/08	10:25	Flowing	N	Clear	Reddish	Yes	pollen/dust blankets (pollen blankets behind beaver dam)	No	Sparse	NR	NR	VD	NR
W2021	215B	7/1/08	10:50	Flowing	N	Clear	Clear	Yes	foam; natural foam	No	Moderate	NR	NR	NR	D
W2022	215F	7/1/08	11:06	Flowing	N	Clear	Other (Rusty (orangish)	No		No	Sparse	U	U	U	U
W2023	216G	7/1/08	11:43	Flowing	N	Clear	Clear	Yes	foam; natural foam	No	N	NR	NR	NR	VD
W2024	216I-X	7/1/08	12:04	Flowing	N	Clear	Other (Dark yellow)	Yes	foam; natural foam	No	N	NR	NR	NR	M
W2025	216	7/1/08	12:32	Flowing	N	Clear	Other (Rusty (orangish)	Yes	foam; natural	No	N	N	N	N	N
W2054	BC	7/1/08	13:32	Flowing	N	Clear	Clear	No		No	N	NR	NR	NR	S
W0494	CBG	9/30/08	9:21	Flowing	N	Clear	Dark Tan	Yes	Foam(natural below dam)	No	U	U	U	U	U
W2015	BSR0.01	9/30/08	10:00	Flowing	N	Clear	Dark Tan	Yes	foam (a little natural foam)	No	Sparse	U	U	U	U
W2016	105	9/30/08	10:35	Flowing	N	Clear	Dark Tan	No		No	N	N	N	N	N
W2017	107A	9/30/08	10:50	Flowing	N	Clear	Dark Tan	Yes	Foam (natural)	No	Sparse	NR	NR	NR	M
W2018	108	9/30/08	11:15	Flowing	N	Clear	Dark Tan	Yes	Foam (natural)	No	Sparse	NR	S	NR	NR
W2019	121	9/30/08	11:30	Flowing	Sulfide (rotten egg)	Clear	Clear	No		No	N	NR	NR	NR	M
W2020	215	11/18/08	10:27	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (natural)	No	N	N	N	N	N

Table 2 (continued). 2008 Field observations from MA DEP DWM surveys

Unique ID	Station ID	Date	Time	Flow Status	Odor	Water Clarity	Color	Scum	Floating Scum Comments	Objectionable Deposits	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss
W2021	215B	11/18/08	10:52	Flowing	N	Clear	NR	Yes	Foam	No	Sparse	NR	NR	NR	D
W2022	215F	11/18/08	11:09	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (natural)	No	N	NR	NR	D	NR
W2023	216G	11/18/08	11:43	Flowing	N	Clear	Clear	Yes	Foam	No	N	NR	NR	NR	D
W2024	216I-X	11/18/08	12:00	Flowing	N	Clear	Clear	Yes	Foam (natural)	No	Sparse	NR	NR	NR	S
W2025	216	11/18/08	12:23	Flowing	N	Clear	Clear	Yes	Foam (natural)	No	N	N	N	N	N
W2020	215	12/2/08	10:20	Flowing	NR	NR	NR	Yes	Foam (natural)	No	N	U	U	U	U
W2021	215B	12/2/08	10:40	Flowing	N	Clear	Clear	No		No	Sparse	NR	NR	NR	D
W2022	215F	12/2/08	11:01	Flowing	N	Clear	Light Yellow/Tan	No		No	Sparse	U	U	U	U
W2023	216G	12/2/08	11:35	Flowing	N	Clear	Light Yellow/Tan	No		No	N	NR	NR	NR	VD
W2024	216I-X	12/2/08	11:55	Flowing	N	Clear	Dark Tan	No		No	N	U	U	U	U
W2025	216	12/2/08	12:25	Flowing	N	Clear	Light Yellow/Tan	Yes	Foam (likely natural)	No	N	U	U	U	U
W2054	BC	12/2/08	13:19	Flowing	N	Clear	Clear	No		No	N	N	N	N	N

Sampling Issues and Coordinator Notes

Some field sheet observations are qualitative and subject to the interpretation of individual sampling crew members; particularly observations of light trash and foam noted on many field sheets. These observations, though accurate, are literal interpretations of the fieldsheet categories and are not indicative of levels of objectionable deposits or foam severe enough to impair the Aesthetics uses of the majority of these waters.

Not all of the samples collected during side-by-side sampling have corresponding parameters on all dates. For example an attended probe was unavailable on September 30th so *in-situ* measurements are not available for comparison with the DCR sampling results.

Water Quality Data

All MassDEP DWM water quality data are managed and maintained in the Water Quality Data Access Database. Tables 3 and 4 are 2008 data for the Chicopee River Watershed side by sampling with the DCR. The procedures used to accept, accept with qualification or censor data are based on the DWM Standard Operating Procedure (SOP) for data validation and usability (MassDEP 2012a), and are in addition to separate quality assurance activities and laboratory validation steps undertaken by WES. Data symbols and qualifiers are listed in Appendix 2.

Table 3. 2008 MassDEP Chicopee River Watershed water quality data

Unique ID	Station ID	Water Body	Sample OWMID	QC OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers*
W2020	215	East Branch Fever Brook	36-0979		07/01/08	10:27	Ammonia-N	mg/L	0.05	
W2020	215	East Branch Fever Brook	36-0979		07/01/08	10:27	*E. coli*	CFU/100 mL	<10	
W2020	215	East Branch Fever Brook	36-0979		07/01/08	10:27	Nitrate/Nitrite-N	mg/L	<0.02	
W2020	215	East Branch Fever Brook	36-0979		07/01/08	10:27	Total Nitrogen	mg/L	0.47	
W2020	215	East Branch Fever Brook	36-0979		07/01/08	10:27	Total Phosphorus	mg/L	0.023	
W2020	215	East Branch Fever Brook	36-0979		07/01/08	10:27	True Color	PCU	72	
W2020	215	East Branch Fever Brook	36-0979		07/01/08	10:27	Turbidity	NTU	2	
W2021	215B	West Branch Fever Brook	36-0980		07/01/08	10:52	Ammonia-N	mg/L	<0.02	
W2021	215B	West Branch Fever Brook	36-0980		07/01/08	10:52	*E. coli*	CFU/100 mL	20	
W2021	215B	West Branch Fever Brook	36-0980		07/01/08	10:52	Nitrate/Nitrite-N	mg/L	<0.02	
W2021	215B	West Branch Fever Brook	36-0980		07/01/08	10:52	Total Nitrogen	mg/L	0.34	
W2021	215B	West Branch Fever Brook	36-0980		07/01/08	10:52	Total Phosphorus	mg/L	0.016	
W2021	215B	West Branch Fever Brook	36-0980		07/01/08	10:52	True Color	PCU	62	
W2021	215B	West Branch Fever Brook	36-0980		07/01/08	10:52	Turbidity	NTU	1.6	
W2022	215F	East Branch Fever Brook	36-0981		07/01/08	11:15	Ammonia-N	mg/L	<0.02	

Table 3 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Unique ID	Station ID	Water Body	Sample OWMID	QC OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers*
W2022	215F	East Branch Fever Brook	36-0981		07/01/08	11:15	*E. coli*	CFU/100 mL	40	
W2022	215F	East Branch Fever Brook	36-0981		07/01/08	11:15	Nitrate/Nitrite-N	mg/L	<0.02	
W2022	215F	East Branch Fever Brook	36-0981		07/01/08	11:15	Total Nitrogen	mg/L	0.33	
W2022	215F	East Branch Fever Brook	36-0981		07/01/08	11:15	Total Phosphorus	mg/L	0.015	
W2022	215F	East Branch Fever Brook	36-0981		07/01/08	11:15	True Color	PCU	59	
W2022	215F	East Branch Fever Brook	36-0981		07/01/08	11:15	Turbidity	NTU	2.6	
W2023	216G	Unnamed Tributary	36-0982		07/01/08	11:47	Ammonia-N	mg/L	<0.02	
W2023	216G	Unnamed Tributary	36-0982		07/01/08	11:47	*E. coli*	CFU/100 mL	20	
W2023	216G	Unnamed Tributary	36-0982		07/01/08	11:47	Nitrate/Nitrite-N	mg/L	0.2	
W2023	216G	Unnamed Tributary	36-0982		07/01/08	11:47	Total Nitrogen	mg/L	0.54	
W2023	216G	Unnamed Tributary	36-0982		07/01/08	11:47	Total Phosphorus	mg/L	0.02	
W2023	216G	Unnamed Tributary	36-0982		07/01/08	11:47	True Color	PCU	50	
W2023	216G	Unnamed Tributary	36-0982		07/01/08	11:47	Turbidity	NTU	1.8	
W2024	216I-X	Moccasin Brook	36-0983	36-0993	07/01/08	12:10	Ammonia-N	mg/L	0.02	
W2024	216I-X	Moccasin Brook	36-0983	36-0993	07/01/08	12:10	*E. coli*	CFU/100 mL	30	
W2024	216I-X	Moccasin Brook	36-0983	36-0993	07/01/08	12:10	Nitrate/Nitrite-N	mg/L	0.09	
W2024	216I-X	Moccasin Brook	36-0983	36-0993	07/01/08	12:10	Total Nitrogen	mg/L	0.65	
W2024	216I-X	Moccasin Brook	36-0983	36-0993	07/01/08	12:10	Total Phosphorus	mg/L	0.047	
W2024	216I-X	Moccasin Brook	36-0983	36-0993	07/01/08	12:10	True Color	PCU	115	
W2024	216I-X	Moccasin Brook	36-0983	36-0993	07/01/08	12:10	Turbidity	NTU	2.7	
W2025	216	East Branch Swift River	36-0984		07/01/08	12:39	Ammonia-N	mg/L	<0.02	
W2025	216	East Branch Swift River	36-0984		07/01/08	12:39	*E. coli*	CFU/100 mL	<10	
W2025	216	East Branch Swift River	36-0984		07/01/08	12:39	Nitrate/Nitrite-N	mg/L	0.03	
W2025	216	East Branch Swift River	36-0984		07/01/08	12:39	Total Nitrogen	mg/L	0.43	
W2025	216	East Branch Swift River	36-0984		07/01/08	12:39	Total Phosphorus	mg/L	0.023	

Table 3 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Unique ID	Station ID	Water Body	Sample OWMID	QC OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers*
W2025	216	East Branch Swift River	36-0984		07/01/08	12:39	True Color	PCU	53	
W2025	216	East Branch Swift River	36-0984		07/01/08	12:39	Turbidity	NTU	1.3	
W2054	BC	Unnamed Tributary	36-0985		07/01/08	13:37	Ammonia-N	mg/L	<0.02	
W2054	BC	Unnamed Tributary	36-0985		07/01/08	13:37	*E. coli*	CFU/100 mL	70	
W2054	BC	Unnamed Tributary	36-0985		07/01/08	13:37	Nitrate/Nitrite-N	mg/L	<0.02	
W2054	BC	Unnamed Tributary	36-0985		07/01/08	13:37	Total Nitrogen	mg/L	0.33	
W2054	BC	Unnamed Tributary	36-0985		07/01/08	13:37	Total Phosphorus	mg/L	0.014	
W2054	BC	Unnamed Tributary	36-0985		07/01/08	13:37	True Color	PCU	42	
W2054	BC	Unnamed Tributary	36-0985		07/01/08	13:37	Turbidity	NTU	1.5	
W0494	CBG	Ware River	36-1577	36-1578	09/30/08	9:36	Ammonia-N	mg/L	##	h
W0494	CBG	Ware River	36-1577	36-1578	09/30/08	9:36	*E. coli*	CFU/100 mL	220	
W0494	CBG	Ware River	36-1577	36-1578	09/30/08	9:36	Nitrate/Nitrite-N	mg/L	##	h
W0494	CBG	Ware River	36-1577	36-1578	09/30/08	9:36	Total Nitrogen	mg/L	0.42	h
W0494	CBG	Ware River	36-1577	36-1578	09/30/08	9:36	Total Phosphorus	mg/L	0.025	h
W0494	CBG	Ware River	36-1577	36-1578	09/30/08	9:36	True Color	PCU	97	
W0494	CBG	Ware River	36-1577	36-1578	09/30/08	9:36	Turbidity	NTU	2.7	
W2015	BSR0.01	Canesto Brook	36-1576		09/30/08	10:14	Ammonia-N	mg/L	##	h
W2015	BSR0.01	Canesto Brook	36-1576		09/30/08	10:14	*E. coli*	CFU/100 mL	240	
W2015	BSR0.01	Canesto Brook	36-1576		09/30/08	10:14	Nitrate/Nitrite-N	mg/L	##	h
W2015	BSR0.01	Canesto Brook	36-1576		09/30/08	10:14	Total Nitrogen	mg/L	0.29	h
W2015	BSR0.01	Canesto Brook	36-1576		09/30/08	10:14	Total Phosphorus	mg/L	0.013	h
W2015	BSR0.01	Canesto Brook	36-1576		09/30/08	10:14	True Color	PCU	72	
W2015	BSR0.01	Canesto Brook	36-1576		09/30/08	10:14	Turbidity	NTU	1.4	
W2016	105	Ware River	36-1575		09/30/08	10:35	Ammonia-N	mg/L	##	h
W2016	105	Ware River	36-1575		09/30/08	10:35	*E. coli*	CFU/100 mL	60	

Table 3 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Unique ID	Station ID	Water Body	Sample OWMID	QC OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers*
W2016	105	Ware River	36-1575		09/30/08	10:35	Nitrate/Nitrite-N	mg/L	##	h
W2016	105	Ware River	36-1575		09/30/08	10:35	Total Nitrogen	mg/L	0.46	h
W2016	105	Ware River	36-1575		09/30/08	10:35	Total Phosphorus	mg/L	0.025	h
W2016	105	Ware River	36-1575		09/30/08	10:35	True Color	PCU	105	
W2016	105	Ware River	36-1575		09/30/08	10:35	Turbidity	NTU	3.4	
W2017	107A	West Branch Ware River	36-1574		09/30/08	10:56	Ammonia-N	mg/L	##	h
W2017	107A	West Branch Ware River	36-1574		09/30/08	10:56	*E. coli*	CFU/100 mL	150	
W2017	107A	West Branch Ware River	36-1574		09/30/08	10:56	Nitrate/Nitrite-N	mg/L	##	h
W2017	107A	West Branch Ware River	36-1574		09/30/08	10:56	Total Nitrogen	mg/L	0.39	h
W2017	107A	West Branch Ware River	36-1574		09/30/08	10:56	Total Phosphorus	mg/L	0.019	h
W2017	107A	West Branch Ware River	36-1574		09/30/08	10:56	True Color	PCU	115	
W2017	107A	West Branch Ware River	36-1574		09/30/08	10:56	Turbidity	NTU	1.4	
W2018	108	East Branch Ware River	36-1573		09/30/08	11:20	Ammonia-N	mg/L	##	h
W2018	108	East Branch Ware River	36-1573		09/30/08	11:20	*E. coli*	CFU/100 mL	60	
W2018	108	East Branch Ware River	36-1573		09/30/08	11:20	Nitrate/Nitrite-N	mg/L	##	h
W2018	108	East Branch Ware River	36-1573		09/30/08	11:20	Total Nitrogen	mg/L	0.34	h
W2018	108	East Branch Ware River	36-1573		09/30/08	11:20	Total Phosphorus	mg/L	0.015	h
W2018	108	East Branch Ware River	36-1573		09/30/08	11:20	True Color	PCU	73	
W2018	108	East Branch Ware River	36-1573		09/30/08	11:20	Turbidity	NTU	1.5	
W2019	121	Mill Brook	36-1572		09/30/08	11:35	Ammonia-N	mg/L	##	h
W2019	121	Mill Brook	36-1572		09/30/08	11:35	*E. coli*	CFU/100 mL	30	
W2019	121	Mill Brook	36-1572		09/30/08	11:35	Nitrate/Nitrite-N	mg/L	##	h
W2019	121	Mill Brook	36-1572		09/30/08	11:35	Total Nitrogen	mg/L	0.35	h
W2019	121	Mill Brook	36-1572		09/30/08	11:35	Total Phosphorus	mg/L	0.015	h
W2019	121	Mill Brook	36-1572		09/30/08	11:35	True Color	PCU	45	

Table 3 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Unique ID	Station ID	Water Body	Sample OWMID	QC OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers*
W2019	121	Mill Brook	36-1572		09/30/08	11:35	Turbidity	NTU	2.7	
W2020	215	East Branch Fever Brook	36-1630		11/18/08	10:34	Ammonia-N	mg/L	<0.02	
W2020	215	East Branch Fever Brook	36-1630		11/18/08	10:34	Nitrate/Nitrite-N	mg/L	<0.02	
W2020	215	East Branch Fever Brook	36-1630		11/18/08	10:34	Total Nitrogen	mg/L	0.3	
W2020	215	East Branch Fever Brook	36-1630		11/18/08	10:34	Total Phosphorus	mg/L	0.011	
W2020	215	East Branch Fever Brook	36-1630		11/18/08	10:34	True Color	PCU	75	
W2020	215	East Branch Fever Brook	36-1630		11/18/08	10:34	Turbidity	NTU	0.8	
W2021	215B	West Branch Fever Brook	36-1631		11/18/08	10:56	Ammonia-N	mg/L	<0.02	
W2021	215B	West Branch Fever Brook	36-1631		11/18/08	10:56	Nitrate/Nitrite-N	mg/L	<0.02	
W2021	215B	West Branch Fever Brook	36-1631		11/18/08	10:56	Total Nitrogen	mg/L	0.26	
W2021	215B	West Branch Fever Brook	36-1631		11/18/08	10:56	Total Phosphorus	mg/L	0.009	
W2021	215B	West Branch Fever Brook	36-1631		11/18/08	10:56	True Color	PCU	68	
W2021	215B	West Branch Fever Brook	36-1631		11/18/08	10:56	Turbidity	NTU	0.7	
W2022	215F	East Branch Fever Brook	36-1632		11/18/08	11:12	Ammonia-N	mg/L	<0.02	
W2022	215F	East Branch Fever Brook	36-1632		11/18/08	11:12	Nitrate/Nitrite-N	mg/L	<0.02	
W2022	215F	East Branch Fever Brook	36-1632		11/18/08	11:12	Total Nitrogen	mg/L	0.23	
W2022	215F	East Branch Fever Brook	36-1632		11/18/08	11:12	Total Phosphorus	mg/L	0.008	
W2022	215F	East Branch Fever Brook	36-1632		11/18/08	11:12	True Color	PCU	60	
W2022	215F	East Branch Fever Brook	36-1632		11/18/08	11:12	Turbidity	NTU	1.1	
W2023	216G	Unnamed Tributary	36-1633		11/18/08	11:46	Ammonia-N	mg/L	0.02	
W2023	216G	Unnamed Tributary	36-1633		11/18/08	11:46	Nitrate/Nitrite-N	mg/L	0.07	
W2023	216G	Unnamed Tributary	36-1633		11/18/08	11:46	Total Nitrogen	mg/L	0.32	
W2023	216G	Unnamed Tributary	36-1633		11/18/08	11:46	Total Phosphorus	mg/L	0.011	
W2023	216G	Unnamed Tributary	36-1633		11/18/08	11:46	True Color	PCU	34	
W2023	216G	Unnamed Tributary	36-1633		11/18/08	11:46	Turbidity	NTU	1	

Table 3 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Unique ID	Station ID	Water Body	Sample OWMID	QC OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers*
W2024	216I-X	Moccasin Brook	36-1634	36-1635	11/18/08	12:02	Ammonia-N	mg/L	<0.02	
W2024	216I-X	Moccasin Brook	36-1634	36-1635	11/18/08	12:02	Nitrate/Nitrite-N	mg/L	0.03	
W2024	216I-X	Moccasin Brook	36-1634	36-1635	11/18/08	12:02	Total Nitrogen	mg/L	0.39	
W2024	216I-X	Moccasin Brook	36-1634	36-1635	11/18/08	12:02	Total Phosphorus	mg/L	0.015	
W2024	216I-X	Moccasin Brook	36-1634	36-1635	11/18/08	12:02	True Color	PCU	110	
W2024	216I-X	Moccasin Brook	36-1634	36-1635	11/18/08	12:02	Turbidity	NTU	1.2	d
W2025	216	East Branch Swift River	36-1637		11/18/08	12:27	Ammonia-N	mg/L	<0.02	
W2025	216	East Branch Swift River	36-1637		11/18/08	12:27	Nitrate/Nitrite-N	mg/L	<0.02	
W2025	216	East Branch Swift River	36-1637		11/18/08	12:27	Total Nitrogen	mg/L	0.29	
W2025	216	East Branch Swift River	36-1637		11/18/08	12:27	Total Phosphorus	mg/L	0.015	
W2025	216	East Branch Swift River	36-1637		11/18/08	12:27	True Color	PCU	62	
W2025	216	East Branch Swift River	36-1637		11/18/08	12:27	Turbidity	NTU	0.9	
W2020	215	East Branch Fever Brook	36-1638		12/02/08	10:20	Ammonia-N	mg/L	0.03	
W2020	215	East Branch Fever Brook	36-1638		12/02/08	10:20	*E. coli*	CFU/100 mL	<10	
W2020	215	East Branch Fever Brook	36-1638		12/02/08	10:20	Nitrate/Nitrite-N	mg/L	<0.02	
W2020	215	East Branch Fever Brook	36-1638		12/02/08	10:20	Total Nitrogen	mg/L	0.28	
W2020	215	East Branch Fever Brook	36-1638		12/02/08	10:20	Total Phosphorus	mg/L	0.012	
W2020	215	East Branch Fever Brook	36-1638		12/02/08	10:20	True Color	PCU	67	
W2020	215	East Branch Fever Brook	36-1638		12/02/08	10:20	Turbidity	NTU	1	
W2021	215B	West Branch Fever Brook	36-1639		12/02/08	10:43	Ammonia-N	mg/L	<0.02	
W2021	215B	West Branch Fever Brook	36-1639		12/02/08	10:43	*E. coli*	CFU/100 mL	10	
W2021	215B	West Branch Fever Brook	36-1639		12/02/08	10:43	Nitrate/Nitrite-N	mg/L	<0.02	
W2021	215B	West Branch Fever Brook	36-1639		12/02/08	10:43	Total Nitrogen	mg/L	0.2	
W2021	215B	West Branch Fever Brook	36-1639		12/02/08	10:43	Total Phosphorus	mg/L	0.007	
W2021	215B	West Branch Fever Brook	36-1639		12/02/08	10:43	True Color	PCU	59	

Table 3 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Unique ID	Station ID	Water Body	Sample OWMID	QC OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers*
W2021	215B	West Branch Fever Brook	36-1639		12/02/08	10:43	Turbidity	NTU	1.2	
W2022	215F	East Branch Fever Brook	36-1640		12/02/08	11:04	Ammonia-N	mg/L	<0.02	
W2022	215F	East Branch Fever Brook	36-1640		12/02/08	11:04	*E. coli*	CFU/100 mL	20	
W2022	215F	East Branch Fever Brook	36-1640		12/02/08	11:04	Nitrate/Nitrite-N	mg/L	<0.02	
W2022	215F	East Branch Fever Brook	36-1640		12/02/08	11:04	Total Nitrogen	mg/L	0.21	
W2022	215F	East Branch Fever Brook	36-1640		12/02/08	11:04	Total Phosphorus	mg/L	0.008	
W2022	215F	East Branch Fever Brook	36-1640		12/02/08	11:04	True Color	PCU	55	
W2022	215F	East Branch Fever Brook	36-1640		12/02/08	11:04	Turbidity	NTU	1.7	
W2023	216G	Unnamed Tributary	36-1641		12/02/08	11:40	Ammonia-N	mg/L	<0.02	
W2023	216G	Unnamed Tributary	36-1641		12/02/08	11:40	*E. coli*	CFU/100 mL	130	
W2023	216G	Unnamed Tributary	36-1641		12/02/08	11:40	Nitrate/Nitrite-N	mg/L	0.1	
W2023	216G	Unnamed Tributary	36-1641		12/02/08	11:40	Total Nitrogen	mg/L	0.33	
W2023	216G	Unnamed Tributary	36-1641		12/02/08	11:40	Total Phosphorus	mg/L	0.01	
W2023	216G	Unnamed Tributary	36-1641		12/02/08	11:40	True Color	PCU	32	
W2023	216G	Unnamed Tributary	36-1641		12/02/08	11:40	Turbidity	NTU	1.6	
W2024	216I-X	Moccasin Brook	36-1642	36-1643	12/02/08	12:03	Ammonia-N	mg/L	<0.02	
W2024	216I-X	Moccasin Brook	36-1642	36-1643	12/02/08	12:03	*E. coli*	CFU/100 mL	160	
W2024	216I-X	Moccasin Brook	36-1642	36-1643	12/02/08	12:03	Nitrate/Nitrite-N	mg/L	0.03	
W2024	216I-X	Moccasin Brook	36-1642	36-1643	12/02/08	12:03	Total Nitrogen	mg/L	0.35	
W2024	216I-X	Moccasin Brook	36-1642	36-1643	12/02/08	12:03	Total Phosphorus	mg/L	0.014	
W2024	216I-X	Moccasin Brook	36-1642	36-1643	12/02/08	12:03	True Color	PCU	86	
W2024	216I-X	Moccasin Brook	36-1642	36-1643	12/02/08	12:03	Turbidity	NTU	0.8	
W2025	216	East Branch Swift River	36-1645		12/02/08	12:32	Ammonia-N	mg/L	<0.02	
W2025	216	East Branch Swift River	36-1645		12/02/08	12:32	*E. coli*	CFU/100 mL	30	
W2025	216	East Branch Swift River	36-1645		12/02/08	12:32	Nitrate/Nitrite-N	mg/L	0.03	

Table 3 (continued). 2008 MassDEP Chicopee River Watershed water quality data

Unique ID	Station ID	Water Body	Sample OWMID	QC OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers*
W2025	216	East Branch Swift River	36-1645		12/02/08	12:32	Total Nitrogen	mg/L	0.25	
W2025	216	East Branch Swift River	36-1645		12/02/08	12:32	Total Phosphorus	mg/L	0.011	
W2025	216	East Branch Swift River	36-1645		12/02/08	12:32	True Color	PCU	50	
W2025	216	East Branch Swift River	36-1645		12/02/08	12:32	Turbidity	NTU	0.7	
W2054	BC	Unnamed Tributary	36-1646		12/02/08	13:24	Ammonia-N	mg/L	<0.02	
W2054	BC	Unnamed Tributary	36-1646		12/02/08	13:24	*E. coli*	CFU/100 mL	<10	
W2054	BC	Unnamed Tributary	36-1646		12/02/08	13:24	Nitrate/Nitrite-N	mg/L	<0.02	
W2054	BC	Unnamed Tributary	36-1646		12/02/08	13:24	Total Nitrogen	mg/L	0.14	
W2054	BC	Unnamed Tributary	36-1646		12/02/08	13:24	Total Phosphorus	mg/L	0.007	
W2054	BC	Unnamed Tributary	36-1646		12/02/08	13:24	True Color	PCU	22	
W2054	BC	Unnamed Tributary	36-1646		12/02/08	13:24	Turbidity	NTU	1.5	

***See Appendix 2 for a complete list of data symbols and qualifiers.**

Table 4. 2008 MassDEP Chicopee River Watershed *in-situ* attended probe data

Station ID	Unique ID	Waterbody	OWMID	Date	Time	Flow Condition	Sample Depth (meters)	Depth Qualifiers*	Temperature (deg. C)	Temperature Qualifiers*	pH (SU)	pH Qualifiers*	Specific Conductivity (uS/cm)	Specific Conductivity Qualifiers*	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers*	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers*	Saturation (%)	Saturation Qualifiers*
215	W2020	East Branch Fever Brook	36-0986	7/1/08	10:33	Flowing	0.2		21.8		5.4		130		84		4.8		56	
215B	W2021	West Branch Fever Brook	36-0987	7/1/08	10:58	Flowing	0.1		23.3		6.0		66		42		5.8		70	
215F	W2022	East Branch Fever Brook	36-0988	7/1/08	11:19	Flowing	0.4		22.7		6.3		60		38		7.6		90	
216G	W2023	Unnamed Tributary	36-0989	7/1/08	11:55	Flowing	0.1		21.4		6.9		244		156		8.3		95	
216I-X	W2024	Moccasin Brook	36-0990	7/1/08	12:16	Flowing	0.2		20.8		6.5		36		23		8.1		92	
216	W2025	East Branch Swift River	36-0991	7/1/08	12:45	Flowing	0.3		22.5		6.8		74		47		8.2		96	
BC	W2054	Unnamed Tributary	36-0992	7/1/08	13:43	Flowing	0.1		20.8		7.1		75		48		7.9		91	
215	W2020	East Branch Fever Brook	36-1623	12/2/08	10:22	Flowing	--		2.9		5.2		92		59		10.8		82	
215B	W2021	West Branch Fever Brook	36-1624	12/2/08	10:47	Flowing	--		1.9		5.8		61		39		11.9		88	
215F	W2022	East Branch Fever Brook	36-1625	12/2/08	11:11	Flowing	--		2.2		5.9		62		39		12.5		93	
216G	W2023	Unnamed Tributary	36-1626	12/2/08	11:46	Flowing	--		3.2		6.4		212	u	136	u	12.2		93	
216I-X	W2024	Moccasin Brook	36-1627	12/2/08	12:08	Flowing	--		2.7		5.9		28		18		12.3		93	
216	W2025	East Branch Swift River	36-1628	12/2/08	12:36	Flowing	--		2.6		6.3		61		39		12.2		91	
BC	W2054	Unnamed Tributary	36-1629	12/2/08	13:28	Flowing	--		4.1		7.0		55		35		11.4		89	

***See Appendix 2 for a complete list of data symbols and qualifiers.**

Water Quality Data-Comparison of Results

The results of the MassDEP sampling that correspond to the DCR sampling (similar analytes and same sampling location) are presented for both water quality sampling and for attended probe measurements. Please note that the DCR total nitrogen values were estimated by adding nitrate/nitrite-N and total kjeldahl nitrogen while DWM total nitrogen data are generated directly via the analysis (not calculated). The MassDEP *E. coli* values are in cfu/100 mL while the DCR are in the units of MPN/100 mL). During side-by-side attended readings, the MassDEP used a Hydrolab MS4a while the DCR used a Reservoir PDA and a Eureka Manta Multiparameter Probe. The MA DCR data was obtained from Yuehlin Lee (Lee 2008, Lee 2009, Lee 2013).

Table 5. Comparison of MassDEP and DCR side-by-side laboratory data- Results and Relative Percent Difference (RPD) for select analytes

SITE	DATE	Total Nitrogen (mg/L) (MassDEP)	Total Nitrogen Calculated (mg/l) (DCR)*	RPD Total Nitrogen**	Total Phosphorus (mg/L) (MassDEP)	Total Phosphorus (mg/l) (DCR)	RPD Total Phosphorus**	*E. coli* (cfu/100mL) (MassDEP)	*E. coli* (MPN/100mL)(DCR)	RPD E. coli**
215	7/1/08	0.47	0.5793	21%	0.023	0.0237	3%	<10	52	53%
215B	7/1/08	0.34	0.452	28%	0.016	0.0198	21%	20	75	36%
215F	7/1/08	0.33	0.4526	31%	0.015	0.0178	17%	40	10	46%
216	7/1/08	0.43	0.3906	10%	0.023	0.022	4%	<10	10	0%
216G	7/1/08	0.54	0.668	21%	0.02	0.0232	15%	20	85	39%
216I-X	7/1/08	0.65	0.7987	21%	0.047	0.0527	11%	30	10	39%
BC	7/1/08	0.33	0.4298	26%	0.014	0.0235	51%	70	135	14%
CBG	9/30/08	--	--	--	--	--	--	220	243	2%
121	9/30/08	0.35	0.375	7%	0.015	0.0166	10%	30	98	30%
108	9/30/08	--	--	--	--	--	--	60	75	5%
107A	9/30/08	--	--	--	--	--	--	150	187	4%
105	9/30/08	0.46	0.431	7%	0.025	0.0245	2%	60	158	21%
215	11/18/08	0.3	0.361	19%	0.011	0.0141	25%	---	<10	--
216	11/18/08	0.29	0.442	41%	0.015	0.0168	11%	--	<10	--
215	12/2/08	0.28	0.282		0.012	0.0115	4%	<10	20	26%
215B	12/2/08	0.2	0.273	1%	0.007	0.00939	29%	10	10	0%
215F	12/2/08	0.21	0.239	31%	0.008	0.00907	13%	20	10	26%
216G	12/2/08	0.33	0.344	13%	0.01	0.00973	3%	130	97	6%
216I-X	12/2/08	0.35	0.339	4%	0.014	0.0147	5%	160	171	1%
216	12/2/08	0.25	0.293	3%	0.011	0.0111	1%	30	31	1%
BC	12/2/08	0.14	0.125	16%	0.007	0.0101	36%	<10	<10	0%

* Note that DCR Total Nitrogen values were estimated by adding Nitrate/Nitrite-N and Total Kjeldahl Nitrogen.
** For the purpose of calculating the RPD, values less than the minimum detection limit were set equal to the minimum detection limit.
-- No data.

Table 6. Comparison of MassDEP and DCR side-by-side attended probe data

DCR Data									MassDEP Data									
DCR Site ID	Date	Time	Temperature (degrees °C)	Conductivity (us/cm)	DO (mg/L)	pH (SU)	Depth (m)	DO Saturation (%)	MassDEP Station ID	OWMID	Date	Time	Temperature (degrees °C)	Conductivity (us/cm)	DO (mg/L)	pH (SU)	Depth (m)	DO Saturation (%)
Boat Cove	7/1/08	1:45:10	20.71	75	7.87	7.33	0.05	90.19	BC	36-0992	7/1/08	13:43	20.75	74.6	7.92	7.13	0.1	90.6
215	7/1/08	10:32:11	21.84	129	4.60	5.58	0.06	53.91	215	36-0986	7/1/08	10:33	21.83	130	4.79	5.39	0.2	56.1
215B	7/1/08	10:59:56	23.26	66	5.73	6.08	0.09	68.99	215B	36-0987	7/1/08	10:58	23.29	65.8	5.81	5.96	0.1	69.7
215F	7/1/08	11:21:33	22.79	60	7.52	6.51	0.15	89.73	215F	36-0988	7/1/08	11:19	22.68	59.6	7.62	6.28	0.4	90.4
216G	7/1/08	11:57:00	21.44	240	8.16	7.24	-0.09	94.85	216G	36-0989	7/1/08	11:55	21.38	243.6	8.25	6.89	0.1	95.4
216I-X	7/1/08	12:17:27	20.81	37	7.97	6.68	0.03	91.49	216I-X	36-0990	7/1/08	12:16	20.84	36.3	8.06	6.48	0.2	92.3
216	7/1/08	12:49:27	22.51	75	8.07	6.99	0.19	95.77	216	36-0991	7/1/08	12:45	22.5	73.8	8.23	6.77	0.3	96.3
BC.	12/2/08		4.26	57	12.79	7.22		101.82	BC	36-1629	12/2/08	13:28	4.13	55.1	11.44	6.97	--	89.2
216I-X	12/2/08		2.79	31	13.43	6.12		102.82	216I-X	36-1627	12/2/08	12:08	2.65	28.4	12.34	5.88	--	92.6
216G	12/2/08		3.36	197	13.23	6.7		102.9	216G	36-1626	12/2/08	11:46	3.23	212.3	12.16	6.38	--	92.6
216	12/2/08		2.75	64	13.7	6.64		104.79	216	36-1628	12/2/08	12:36	2.62	60.9	12.19	6.27	--	90.8
215F	12/2/08		2.41	64	13.57	6.36		102.83	215F	36-1625	12/2/08	11:11	2.24	61.6	12.49	5.93	--	92.6
215B	12/2/08		2.07	63	12.94	6.21		97.2	215B	36-1624	12/2/08	10:47	1.92	60.7	11.92	5.75	--	87.6
215	12/2/08		3.05	93	11.71	5.71		90.31	215	36-1623	12/2/08	10:22	2.92	91.7	10.81	5.23	--	81.6

Table 7. Comparison of MassDEP and DCR side-by-side attended probe data- differences and RPD for selected parameters

MassDEP Station ID	OWMID	Date	Time	Difference in temperature (degrees C)	Difference in Conductivity (uS/cm)	Difference in DO (mg/L)	Difference in pH (SU)	RPD Temperature	RPD Conductivity	RPD DO
215	36-0986	7/1/08	10:33	0.01	1.0	0.19	0.19	0.0%	0.8%	4.0%
215B	36-0987	7/1/08	10:58	0.03	0.2	0.08	0.12	0.1%	0.3%	1.4%
215F	36-0988	7/1/08	11:19	0.11	0.4	0.10	0.23	0.5%	0.7%	1.3%
216G	36-0989	7/1/08	11:55	0.06	3.6	0.09	0.35	0.3%	1.5%	1.1%
216I-X	36-0990	7/1/08	12:16	0.03	0.7	0.09	0.2	0.1%	1.9%	1.1%
216	36-0991	7/1/08	12:45	0.01	1.2	0.16	0.22	0.0%	1.6%	2.0%
BC	36-0992	7/1/08	13:43	0.04	0.4	0.05	0.2	0.2%	0.5%	0.6%
215	36-1623	12/2/08	10:22	0.13	1.3	0.90	0.48	4.4%	1.4%	8.0%
215B	36-1624	12/2/08	10:47	0.15	2.3	1.02	0.46	7.5%	3.7%	8.2%
215F	36-1625	12/2/08	11:11	0.17	2.4	1.08	0.43	7.3%	3.8%	8.3%
216G	36-1626	12/2/08	11:46	0.13	15.3	1.07	0.32	3.9%	7.5%	8.4%
216I-X	36-1627	12/2/08	12:08	0.14	2.6	1.09	0.24	5.1%	8.8%	8.5%
216	36-1628	12/2/08	12:36	0.13	3.1	1.51	0.37	4.8%	5.0%	11.7%
BC	36-1629	12/2/08	13:28	0.13	1.9	1.35	0.25	3.1%	3.4%	11.1%

Conclusions

The MassDEP and the DCR values for total phosphorus, *E. coli* and total nitrogen (both measured and calculated respectively) showed broad similarity. The median relative percent difference for total phosphorus, *E. coli* and total nitrogen were 21%, 11% and 17% respectively. Total nitrogen relative percent difference was generally less than 2x the MassDEP's Programmatic Data Quality Objective (DQO) for Total Nitrogen precision of <20 % RPD (samples 100-1000ppb) (MassDEP 2005c). It should be noted that the MA DCR total nitrogen values were calculated and this adds a source of variation to the relative percent difference values. Total phosphorus relative percent differences are generally less than 2x the MassDEP's Programmatic DQO for Total Phosphorus precision of <20 % RPD (samples 100-1000ppb) (MassDEP 2005c). Only 2 of the relatives percent difference values for *E. coli* are greater than 40%, 2x the MassDEP's Programmatic DQO for *E. coli* precison (MassDEP 2005c). The majority of relative percent difference values for *E.coli* are less than 20%, the MassDEP's Programmatic DQO for *E. coli* precision (MassDEP 2005c).

The MassDEP and the DCR *in-situ* field measurements were comparable with the exception of the dissolved oxygen and pH readings on December 2nd. The difference between the MassDEP and the DCR temperature readings was within 0.15 degrees Celsius, the MassDEP Programmatic DQO for temperature accuracy, for all but one reading (MassDEP 2005c). The MassDEP and the DCR specific conductance readings were within 5% for the majority of readings with the exception of two readings on December 2. The MassDEP's Programmatic DQO for accuracy of Specific Conductance measurements for deployed probes, the most applicable criterion when comparing the MassDEP and the DCR readings, is <2 RPD (MassDEP 2005c). MassDEP accepts but qualifies readings with 2-5% RPD for Specific Conductance and censors readings with >5 % RPD (MassDEP 2005c).

The difference between the MassDEP and the DCR pH readings were less than 0.4 for the majority of readings. The MassDEP Programmatic DQO for pH accuracy is +/-0.2 SU (MassDEP 2005c). The MassDEP Programmatic DQO for pH accuracy/precision for deployed probes is <0.4 SU (MassDEP 2005c). Since most of the differences in pH are less than this amount, the MassDEP and the DCR pH data show good comparability. The pH differences were greatest on December 2 where water temperatures were low (<4 degrees C). MassDEP Strategic Monitoring and Assessment for River Basin Teams (SMART) crew members have noted that during cold weather that the pH probe often takes longer to stabilize (Beaudoin, personal communication).

With the exception of the December 2 sampling, the difference in dissolved oxygen readings between the DCR and the MassDEP readings were less than 0.2 mg/L, which is also less than the MassDEP Programmatic DQO for dissolved oxygen of +/- 0.2 mg/L (MassDEP 2005c). The differences between the MassDEP and the DCR dissolved oxygen readings on December 2 were generally around 1 mg/L with a range from 0.90 mg/L to 1.51 mg/L. If you used the MassDEP acceptance criteria for the dissolved oxygen accuracy/precision for deployed dissolved oxygen probes as a guide to comparing the dissolved oxygen readings, the dissolved oxygen readings for December 2 would be considered censored, since the difference between dissolved oxygen readings was >1 mg/L (MassDEP 2005c). It is unclear what caused the large difference in dissolved oxygen readings on December 2. It may have to do with the cold water conditions or other unknown factors.

The DCR water quality sampling data should be acceptable for use by the MassDEP. The difference in dissolved oxygen readings in the winter should be considered but the risk to using the DCR data is low. Measurements and water quality samples during summer sampling showed broad agreement and this is the most critical period in terms of water quality.

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Appendix 2: 2008 Data Symbols and Qualifiers

Excerpted from: Water Quality Data Validation Report for Year 2008 Project Data (CN 361.0)

The following data qualifiers or symbols are used in the MADEP/DWM WQD database for qualified and censored water quality and multi-probe data. Decisions regarding censoring vs. qualification for specific, problematic data are made based on a thorough review of all pertinent information related to the data. Data qualifiers reported by laboratories are typically either directly-transferable to DWM data (e.g., "H" for holding time violation) or indirectly-transferable, where the qualifier symbol is transformed to conform to DWM's qualifier list (e.g., "R" qualifier used by a lab to reject data due to poor QC results is transformed to "a").

General Symbols (applicable to all types):

" ## " = Censored data (i.e., data that has been discarded for some reason).

" ** " = Missing data (i.e., data that should have been reported).

" -- " = No data (i.e., data not taken/not required)

" ^^ " = No data due to no water

Multi-probe-specific Qualifiers:

" i " = inaccurate readings from Multi-probe likely; may be due to significant pre-survey calibration problems, post-survey checks outside typical acceptance ranges for the low ionic and deionized water checks, lack of calibration of the depth sensor prior to use, or to checks against laboratory analyses. Where documentation on unit pre-calibration is lacking, but SOPs at the time of sampling dictated pre-calibration prior to use, then data are considered potentially inaccurate.

" m " = method not followed; one or more protocols contained in the DWM Multi-probe SOP not followed, ie. operator error (eg. less than 3 readings per station (rivers) or per depth (lakes), or instrument failure not allowing method to be implemented.

" s " = field sheet recorded data were used to accept data, not data electronically recorded in the Multi-probe surveyor unit, due to operator error or equipment failure.

" u " = unstable readings, due to lack of sufficient equilibration time prior to final readings, non-representative location, highly-variable water quality conditions, etc. See Section 4.1 for acceptance criteria.

" c " = greater than calibration standard used for pre-calibration, or outside the acceptable range about the calibration standard. Typically used for conductivity (>718, 1,413, 2,760, 6,668 or 12,900 uS/cm) or turbidity (>10, 20 or 40 NTU). It can also be used for TDS and Salinity calculations based on qualified ("c") conductivity data, or that the calculation was not possible due to censored conductivity data (TDS and Salinity are calculated values and entirely based on conductivity reading). See Section 4.1 for acceptance criteria.

" r " = data not representative of actual field conditions.

" t " = tidal conditions

Sample-Specific Qualifiers:

" a " = accuracy as estimated at WES Lab via matrix spikes, PT sample recoveries, internal check standards and lab-fortified blanks did not meet project data quality objectives identified for program or in QAPP.

" b " = blank Contamination in lab reagant blanks and/or field blank samples (indicating possible bias high and false positives).

“ d ” = precision of field duplicates (as RPD) did not meet project data quality objectives identified for program or in QAPP. Batched samples may also be affected.

“ e ” = not theoretically possible. Specifically, used for bacteria data where colonies per unit volume for e-coli bacteria > fecal coliform bacteria, for lake Secchi and station depth data where a specific Secchi depth is greater than the reported station depth, and for other incongruous or conflicting results.

“ f ” = frequency of quality control duplicates did not meet data quality objectives identified for program or in QAPP.

“ h ” = holding time violation (usually indicating possible bias low)

“ j ” = ‘estimated’ value; used for lab-related issues where certain lab QC criteria are not met and re-testing is not possible (as identified by the WES lab only). Also used to report sample data where the sample concentration is less than the ‘reporting’ limit or RDL and greater than the method detection limit or MDL (mdl< x <rdl). Also used to note where values have been reported at levels less than the mdl.

“ m ” = method SOP not followed, only partially implemented or not implemented at all, due to complications with sample matrix (eg. sediment in sample, floc formation), lab error (eg. cross-contamination between samples), additional steps taken by the lab to deal with matrix complications, lost/unanalyzed samples, and missing data.

“ p ” = samples not preserved per SOP or analytical method requirements.

“ r ” = samples collected may not be representative of actual field conditions, including the possibility of “outlier” data and flow-limited conditions (e.g., pooled).

“ t ” = tidal conditions