Technical Memorandum

NEPONSET RIVER WATERSHED 2009
DWM WATER QUALITY MONITORING DATA

January 2013

Massachusetts Department of Environmental Protection
Division of Watershed Management
DWM Control Number CN 340.1

COMMONWEALTH OF MASSACHUSETTS
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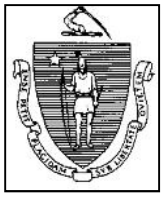

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Introduction

The purpose of this technical memorandum is to publish water quality data collected in the Neponset River Watershed as part of the Massachusetts Department of Environmental Protection (MassDEP), Division of Watershed Management (DWM) programmatic monitoring (MassDEP 2005a). The Neponset River Watershed water quality surveys were conducted between the months of April and September in 2009. Water quality samples were analyzed for nutrients and other conventional pollutants, metals, bacteria (*Escherichia coli*), as well as dissolved oxygen and other field measurements. The aquatic macroinvertebrate and fish community data are published in separate technical memoranda.

Project Objectives

The 2009 surveys of the Neponset River Watershed focused on obtaining information to meet the following objectives (MassDEP 2009a):

- provide biological, habitat, dissolved oxygen, temperature, and chemical data for the purpose of assessing Aquatic Life and Aesthetics uses as required by Section 305(b) of the Clean Water Act and documenting biological, chemical, and physical changes over time (trend monitoring);
- provide biological, habitat, dissolved oxygen, temperature, and chemical data to confirm Category 5 303(d) listings and findings of external organizations;
- provide quality-assured *E. coli* data for the purpose of assessing Primary and Secondary Contact Recreational uses and documenting changes in pathogen levels over time (trend monitoring);
- provide data for other informational needs of Massachusetts regulatory agencies such as NPDES permitting and TMDL development.

Additional information regarding project objectives may be found in: *Sampling Analysis Plan Surface Water Monitoring Neponset River Watershed* (MassDEP 2009b).

Sampling Plan

River Water Quality

Water quality surveys were conducted a total of six times (weeks of April 27, June 1, July 6, August 10, August 24, and September 14). Grab samples for *E. coli* were collected at a total of 30 stations. Grab samples for total phosphorus, total nitrogen, ammonia-nitrogen, color and turbidity were collected at 20 stations. Continuous temperature and dissolved oxygen monitoring with unattended metered probes was carried out at 20 sites. These unattended probes were deployed during the months of June, July, August, and September on Friday of the weeks preceding the water sampling surveys for that month and retrieved two to five days later. Finally, long-term temperature-only data loggers were deployed at 12 sites (MassDEP 2009a).

Lake Monitoring

Water quality surveys were conducted twice (July 23 and August 20) at Ponkapoag Pond (Canton/Randolph) and Reservoir Pond (Canton). Grab samples for total phosphorus and depth-integrated samples for chlorophyll a were collected at the deep hole of each lake (MassDEP 2009a). Dissolved oxygen, temperature, pH, and specific conductivity were measured using a multiprobe at each water quality survey.

Table 1 and Figure 1 provide details and locations of the 2009 sampling sites. Additional information regarding the sampling design may be found in *Sampling Analysis Plan Surface Water Monitoring Neponset River Watershed 2009* (MassDEP 2009b).

Field and Analytical Methods

Procedures used for water quality sampling and sample handling are described in CN 1.21 - Sample Collection Techniques for DWM Surface Water Quality Monitoring (MassDEP 2004) and CN 101.2 - Ambient Trace Metal Sampling (MassDEP 2012a). The Wall Experiment Station (WES) 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 used for multi-probe calibration and deployment are described in CN 4.21 - Water Quality Multiprobe Data Collection (MassDEP 2005b) and CN 4.41 - Multi-Probe Sonde Deployments for Continuous Unattended Water Quality Data Collection (MassDEP 2007).

Concurrent with the collection of water quality samples, site characteristics and sampling conditions were recorded on DWM field sheets. Riparian vegetation, observed uses (e.g. swimming, boating, fishing), 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.

Quality Assurance (QA) and Quality Control (QC)

Quality assurance and quality control procedures used in collecting samples and measurements were consistent with the prevailing DWM protocols that are described in CN 1.21 - Sample Collection Techniques for DWM Surface Water Quality Monitoring (MassDEP 2004), CN 101.2 - Ambient Trace Metal Sampling (MassDEP 2012a), CN 4.21 - Water Quality Multiprobe Data Collection (MassDEP 2005b) and CN 4.41 - Multi-Probe Sonde Deployments for Continuous Unattended Water Quality Data Collection (MassDEP 2007).

The DWM quality assurance and database management staff reviewed laboratory data reports and all multi-probe data. The data were validated and finalized per data validation procedures outlined in CN 56.15 - DWM Water Quality Data Validation Process (Summary) (MassDEP 2012b). All water quality sample data were validated by reviewing QC sample results, analytical holding time compliance, QC sample frequency and related ancillary data/documentation (at a minimum). A complete summary of the data review process for all 2009 DWM data is provided in CN 362.0 – Water Quality Data Validation Report for Year 2009 Project Data (MassDEP 2012c). Appendix 1 of this technical memorandum contains definitions for all data qualifiers.

Table 1. MassDEP DWM 2009 Neponset River Watershed sampling station descriptions and sampling parameters and frequency.

Station ID	Unique ID	Water Body	Station Description	Latitude	Longitude	*E. coli* Bacteria	Total Nitrogen & Ammonia	Total Phosphorus	True Color & Turbidity	Metals & Hardness	Chlorophyll a	Temperature Probe	Attended Multiprobe	Unattended Multiprobe
BB01	W0557	Beaver Brook	[Upland Road, Sharon]	42.12604	-71.18526	6	5	5	5			1	6	3
BB02	W1940	Bubbling Brook	[Trailside Drive, Walpole]	42.19347	-71.24276	6								
BM02	W1945	Beaver Meadow Brook	[Boston Drive, Canton]	42.15206	-71.11241	6	5	5	5				6	3
GB02	W1942	Germany Brook	[Westover Parkway crossing nearest Leyton Road, Norwood]	42.18651	-71.22345	6	5	5	5				6	3
HAB010	W0544	Hawes Brook	[upstream of Washington Street, Norwood (above influence of pool discharge pipe on southern bank)]	42.17399	-71.20854	6	5	5	5				6	3
MB01	W1938	Mill Brook	[the Mill Brook Road crossing nearest Nebo Street, Medfield]	42.19362	-71.27966	6	5	5	5			1	6	3
MB02	W1941	Mill Brook	[the Tamarack Road crossing nearest Briar Lane, Westwood]	42.19362	-71.23780	6						1		
ME01	W1950	Unnamed Tributary	[unnamed tributary to the Neponset River locally known as 'Meadow Brook', approximately 400 feet upstream of Dean Street, Norwood]	42.17949	-71.18820	6								
MN01	W1939	Mine Brook	[stream crossing off the northern end of Mill Pond Road, Walpole]	42.15401	-71.26373	6								
MOB032	W1949	Unnamed Tributary	[unnamed tributary to the Neponset River locally known as 'Mother Brook', Reservation Road, (Hyde Park) Boston]	42.25062	-71.12953	6	5	5	5				6	3
MP01	W1946	Massapoag Brook	[Mechanic Street, Canton]	42.15221	-71.14589	6								
NE11	W1943	Neponset River	[parking area crossing southeast of the Robbins Road, Route 27 intersection, Walpole]	42.14712	-71.25589	6	5	5	5	4		1	8	4
NE12	W1963	East Branch	[approximately 260 feet downstream of Neponset Street, Canton]	42.15821	-71.15549	6	5	5	5	4		1	6	3
NE12B	W0568	Neponset River	[Green Lodge Street, Canton]	42.20923	-71.14595	6	5	5	5	4		1	8	4

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NER185	W1935	Neponset River	[approximately 3000 feet east of Route 28, behind the baseball field off the western end of Meadowbank Avenue, (Mattapan) Boston]	42.26934	-71.08658	6	5	5	5	4		1	6	3
NR01	W1933	Neponset River	[approximately 3200 feet downstream of Route 1, north of the eastern end of Vanderbuilt Avenue, Norwood]	42.17187	-71.18594	6	5	5	5	4		1	6	3
NR03	W1934	Neponset River	[footbridge near eastern end of B Street, (Hyde Park) Boston]	42.24990	-71.12457	6	5	5	5			1	6	3
PC01	W1948	Pecunit Brook	[approximately 360 feet upstream of Interstate 95, Canton]	42.19275	-71.14907	6	5	5	5				6	3
PF01	W1947	Plantingfield Brook	[Route 1, Norwood]	42.20456	-71.18647	6								
POB040	W0566	Ponkapog Brook	[Elm Street, Canton]	42.20323	-71.13502	6	5	5	5				8	4
PONK	W2097	Ponkapog Pond	[deep hole, Randoph]	42.19218	-71.09297			4	2		2		2	
PQ01	W0559	Pequid Brook	[Sherman Street, Canton]	42.15863	-71.13993	6	5	5	5				6	3
PTB047	W0573	Pine Tree Brook	[Eliot Street crossing, (Milton Village) Milton]	42.26948	-71.07282	6	5	5	5				6	3
PU03	W1953	Purgatory Brook	[Everett Street, Norwood]	42.21323	-71.18826	6						1		
RESP	W2096	Reservoir Pond	[deep hole, Canton]	42.17047	-71.12622			3	2		2		2	
SH01	W1944	Steep Hill Brook	[west of the northern end of Erin Road, approximately 2400 feet downstream of Route 27, Stoughton]	42.13970	-71.13874	6								
SM02	W1936	School Meadow Brook	[Washington Street, Walpole]	42.12540	-71.24600	6								
TH02	W0551	Traphole Brook	[Cooney Street, Walpole]	42.15753	-71.20895	6	5	5	5			1	6	3

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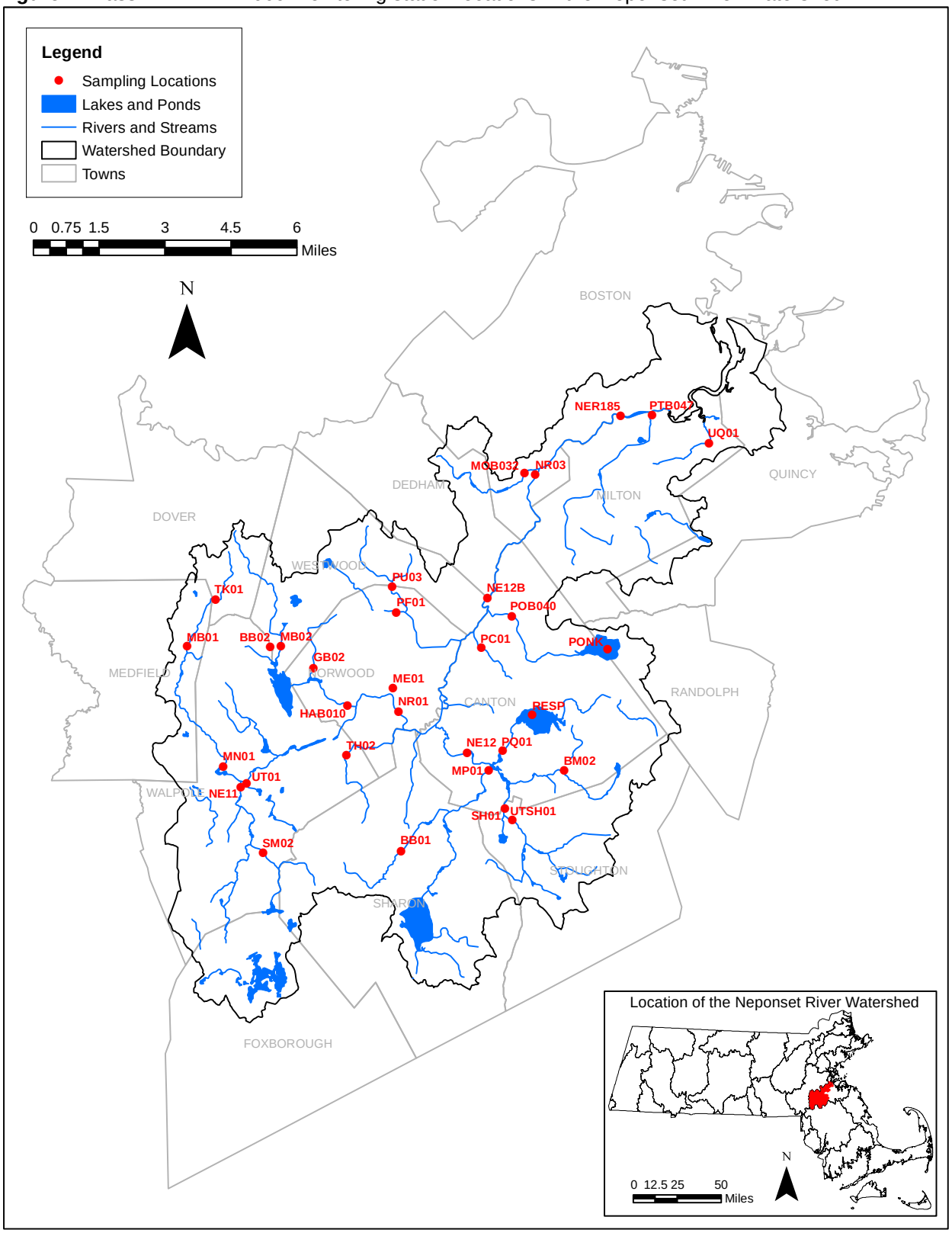
Station ID	Unique ID	Water Body	Station Description	Latitude	Longitude	*E. coli* Bacteria	Total Nitrogen & Ammonia	Total Phosphorus	True Color & Turbidity	Metals & Hardness	Chlorophyll a	Temperature Probe	Attended Multiprobe	Unattended Multiprobe
TK01	W1937	Tubwreck Brook	[Draper Road, Dover]	42.20895	-71.26695	6	5	5	5					
UQ01	W0579	Unquity Brook	[Rowe Street (just south of Adams Street), Milton]	42.25990	-71.04754	6	5	5	5					
UT01	W1952	Unnamed Tributary	[unnamed tributary to the Neponset River west of Neponset View Terrace, locally considered part of Spring Brook, approximately 420 feet upstream from confluence with the Neponset River, Walpole]	42.14825	-71.25330	6	5	5	5					
UTSH01	W1951	Unnamed Tributary	[unnamed tributary to Steep Hill Brook, approximately 950 feet upstream of Erin Road, Stoughton]	42.13572	-71.13563	6								

Figure 1. MassDEP DWM 2009 monitoring station locations in the Neponset River Watershed.



Survey Conditions

Precipitation and stream discharge data were analyzed to estimate hydrological conditions during the 2009 water quality surveys in the Neponset River Watershed. Precipitation data collected during the survey period in 2009 were downloaded from the National Oceanic and Atmospheric Administration (NOAA), National Climatic Data Center (NCDC) for the Walpole 2 (GHCND:USC00198757), Boston Logan International Airport (GHCND:USW00014739) and East Milton Blue Hill Observatory (GHCND:USW00014753) weather stations (NOAA 2013). The precipitation totals on the water quality survey dates and the five days prior to the survey dates were extracted from the records. In addition, the monthly precipitation totals for 2009 and the twenty year monthly averages for the two weather stations were downloaded to determine if precipitation amounts in 2009 were above or below normal (Table 2).

Table 2. Total monthly precipitation in 2009 at weather stations in the Neponset River Watershed. The twenty year monthly average precipitation totals for those stations are in parentheses (NOAA 2013).

Month	Walpole 2	Boston Logan International Airport	East Milton Blue Hill Observatory
January	4.48 (3.78)	3.35 (3.36)	4.89 (4.35)
February	1.99 (3.54)	1.94 (3.25)	2.37 (4.07)
March	2.95 (4.81)	2.51 (4.32)	3.55 (5.58)
April	4.59 (4.39)	4.13 (3.74)	4.54 (4.55)
May	3.99 (3.65)	2.70 (3.49)	3.90 (4.11)
June	5.24 (4.08)	3.22 (3.68)	5.14 (4.31)
July	6.89 (3.91)	6.90 (3.43)	7.63 (4.02)
August	4.06 (3.91)	3.24 (3.35)	3.51 (4.03)
September	2.48 (3.66)	3.09 (3.44)	3.11 (4.06)
October	6.65 (4.35)	5.18 (3.94)	7.23 (4.69)
November	4.42 (4.46)	3.34 (3.99)	4.46 (4.76)
December	5.11 (4.52)	3.91 (3.78)	5.69 (4.89)

Stream discharge data from five real-time United States Geological Survey (USGS) stream gage stations (Table 3) were downloaded from the USGS (USGS 2013a). In addition, the 7Q10 for each gage station was downloaded from the USGS website and included in Table 3 (USGS 2013b). The entire period of record for each 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 4.

Table 3. USGS gage stations used to estimate the hydrological conditions in the Neponset River Watershed during the 2009 DWM water quality surveys and the estimated 7Q10 flows for each gage. (USGS 2013a) (USGS 2013b).

Station Name	Location	Period of Record	7Q10 (cfs)	Remarks
01105000 Neponset River at Norwood, MA	42° 10'39" -71° 12'05"	1939 to 2012	4.5	Flow regulated by mills and reservoirs upstream. Flow affected by several diversions upstream for municipal and industrial use.
01105500 East Branch Neponset River at Canton, MA	42° 09'16" -71° 08'47"	1952 to 2012	3.6	Flow regulated by Forge, Bolivar, Massapoag, and Reservoir Ponds, and other ponds upstream. Flow affected by diversions for municipal supply of Canton and Stoughton.

Table 4. The precipitation totals (inches) and daily average discharge (cubic feet per second) for five days prior to and each DWM 2009 Neponset River Watershed survey date (USGS 2013a) (NOAA 2013).

Note: The percent of time that the daily average discharge was equaled or exceeded over the entire period of record at each stream gage are also provided (percent exceeded). Shaded dates indicate the deployment of multiprobes and bold dates indicate collection of water samples.

	Precipitation			Discharge	
Date	Walpole 2	Boston Logan International Airport	East Milton Blue Hill Observatory	01105000 Neponset River at Norwood, MA	01105500 East Branch Neponset River at Canton, MA
04/23/09	0.22	0.07	0.01	162 (6)	99 (14)
04/24/09	0.00	0.00	0.00	144 (8)	78 (21)
04/25/09	0.00	0.00	0.00	124 (11)	68 (26)
04/26/09	0.00	0.00	0.00	108 (15)	64 (29)
04/27/09	0.00	0.00	0.00	96 (18)	60 (32)
04/28/09	0.00	0.00	0.00	88 (21)	57 (34)
05/24/09	0.00	0.51	1.07	60 (35)	56 (34)
05/25/09	1.92	0.00	0.00	64 (32)	117 (9)
05/26/09	0.00	0.00	0.00	40 (49)	65 (28)
05/27/09	0.08	0.16	0.16	37 (52)	48 (40)
05/28/09	0.11	0.00	0.03	35 (54)	44 (44)
05/29/09	0.03	0.13	0.06	36 (53)	41 (47)
05/30/09	0.21	0.14	0.16	41 (49)	42 (46)
05/31/09	0.00	0.03	0.03	35 (54)	37 (51)
06/01/09	0.05	0.00	0.00	29 (60)	32 (56)
06/02/09	0.00	0.00	0.00	26 (63)	28 (61)
06/03/09	0.00	0.00	0.00	24 (65)	27 (62)
06/04/09	0.03	0.00	0.00	25 (64)	26 (63)
07/18/09	0.44	0.24	0.35	56 (37)	63 (29)
07/19/09	0.00	0.00	0.00	46 (45)	53 (37)
07/20/09	0.00	0.00	0.00	39 (50)	39 (48)

Table 4. The precipitation totals (inches) and daily average discharge (cubic feet per second) for five days prior to and each DWM 2009 Neponset River Watershed survey date (USGS 2013a) (NOAA 2013).

Note: The percent of time that the daily average discharge was equaled or exceeded over the entire period of record at each stream gage are also provided (percent exceeded). Shaded dates indicate the deployment of multiprobes and bold dates indicate collection of water samples.

	Precipitation			Discharge	
Date	**Walpole 2**	**Boston Logan International Airport**	**East Milton Blue Hill Observatory**	**01105000 Neponset River at Norwood, MA**	**01105500 East Branch Neponset River at Canton, MA**
07/21/09	0.12	0.52	0.62	43 (47)	42 (46)
07/22/09	0.42	0.00	0.00	50 (42)	59 (32)
07/23/09	0.00	0.43	0.68	48 (43)	49 (40)
08/02/09	0.00	0.00	0.00	76 (26)	66 (28)
08/03/09	0.00	0.00	0.00	63 (33)	56 (34)
08/04/09	0.00	0.00	0.00	53 (39)	48 (40)
08/05/09	0.00	0.00	0.00	60 (35)	42 (46)
08/06/09	0.00	0.00	0.00	31 (58)	38 (50)
08/07/09	0.00	0.00	0.00	36 (53)	34 (54)
08/08/09	0.00	0.00	0.00	33 (56)	30 (59)
08/09/09	0.00	0.00	0.00	30 (59)	27 (62)
08/10/09	0.10	0.01	0.12	30 (59)	27 (62)
08/11/09	0.04	0.05	0.54	31 (58)	26 (63)
08/12/09	0.52	0.00	0.00	37 (52)	27 (62)
08/15/09	0.00	0.00	0.00	27 (62)	23 (67)
08/16/09	0.00	0.00	0.00	25 (64)	21 (69)
08/17/09	0.00	0.00	0.00	22 (68)	19 (72)
08/18/09	0.00	0.00	0.00	20 (70)	16 (76)
08/19/09	0.00	0.00	0.00	18 (73)	14 (80)
08/20/09	0.00	0.28	0.34	25 (64)	15 (78)
08/22/09	0.00	0.17	0.03	18 (73)	14 (80)
08/23/09	0.60	0.13	0.50	43 (47)	17 (75)
08/24/09	0.00	0.77	0.00	33 (56)	16 (76)
08/25/09	0.00	0.00	0.00	24 (65)	14 (80)
08/26/09	0.00	0.00	0.00	20 (70)	12 (83)
08/27/09	0.00	0.00	0.00	17 (75)	11 (85)
09/06/09	0.00	0.00	0.00	19 (72)	12 (83)
09/07/09	0.00	0.00	0.00	17 (75)	14 (80)
09/08/09	0.00	0.00	0.00	16 (77)	11 (85)
09/09/09	0.00	0.00	0.00	16 (77)	10 (86)
09/10/09	0.00	0.00	0.00	21 (69)	9.6 (87)
09/11/09	0.00	0.20	0.49	28 (61)	11 (85)
09/12/09	0.97	2.11	1.74	68 (30)	44 (44)

Table 4. The precipitation totals (inches) and daily average discharge (cubic feet per second) for five days prior to and each DWM 2009 Neponset River Watershed survey date (USGS 2013a) (NOAA 2013).

Note: The percent of time that the daily average discharge was equaled or exceeded over the entire period of record at each stream gage are also provided (percent exceeded). Shaded dates indicate the deployment of multiprobes and bold dates indicate collection of water samples.

	Precipitation			Discharge	
Date	**Walpole 2**	**Boston Logan International Airport**	**East Milton Blue Hill Observatory**	**01105000 Neponset River at Norwood, MA**	**01105500 East Branch Neponset River at Canton, MA**
09/13/09	0.65	0.00	0.06	73 (28)	65 (28)
09/14/09	0.00	0.00	0.00	58 (36)	36 (52)
09/15/09	0.00	0.00	0.00	44 (46)	25 (65)
09/16/09	0.00	0.00	0.00	38 (51)	20 (71)
09/17/09	0.00	0.00	0.00	35 (54)	18 (73)
09/20/09	0.00	0.00	0.00	24 (65)	14 (80)
09/21/09	0.00	0.00	0.00	22 (68)	14 (80)
09/22/09	0.00	0.00	0.00	20 (70)	13 (81)
09/23/09	0.00	0.00	0.00	19 (72)	12 (83)
09/24/09	0.00	0.00	0.00	18 (73)	12 (83)
09/25/09	0.00	0.00	0.00	17 (75)	11 (85)
09/26/09	0.00	0.00	0.00	18 (73)	9.7 (87)
09/27/09	0.18	0.27	0.32	22 (68)	11 (85)
09/28/09	0.08	0.40	0.38	24 (65)	14 (80)
09/30/09	0.00	0.00	0.00	27 (62)	17 (75)

Station Observations

Station observations were recorded on field sheets for each survey by a DWM investigator. Station observations are described below in Table 5 and Table 6 for each sampling event (MassDEP 2009c).

Water Quality Data

All MassDEP DWM water quality data are managed and maintained in the Water Quality Data Access Database (WQD). Tables 7 – 12 below provide the 2009 Neponset River Watershed water quality data. The procedures used to accept, accept with qualification, or censor data are based on the DWM Standard Operating Procedures (SOP) for data validation and usability (MassDEP 2012a), and are in addition to separate quality assurance activities and laboratory validation steps undertaken by WES. Definitions for the data qualifiers are provided in Appendix 1.

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded, NP=not applicable – probe deploy field sheet) (MassDEP 2009c)

Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
BB01	W0557	04/28/09	Musty	Clear	Dark Tan	S	N	N	N	M	No		No	
BB01	W0557	05/29/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
BB01	W0557	06/02/09	None	Clear	Light Yellow	S	N	S	N	N	No		No	
BB01	W0557	06/19/09	Musty	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
BB01	W0557	07/07/09	None	Slightly Turbid	Light Yellow	U	U	U	U	U	No		No	
BB01	W0557	08/07/09	Musty	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
BB01	W0557	08/11/09	None	Clear	Light Yellow	S	N	N	N	N	No		No	
BB01	W0557	08/27/09	Musty	Clear	Brownish	M	N	N	S	S	No		No	
BB01	W0557	09/11/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
BB01	W0557	09/15/09	None	Clear	Light Yellow	U	U	U	U	U	No		No	
BB02	W1940	04/28/09	None	Clear	Clear	N	S	M	N	D	No		Yes	trash: light
BB02	W1940	06/02/09	None	Slightly Turbid	Light Yellow	N	N	N	N	D	No		No	
BB02	W1940	07/07/09	None	Clear	Light Yellow	N	N	S	N	M	No		No	
BB02	W1940	08/11/09	None	Slightly Turbid	Light Yellow	N	N	N	N	VD	No		No	
BB02	W1940	08/27/09	None	Clear	Light Yellow	N	N	S	N	D	No		No	
BB02	W1940	09/15/09	None	Clear	Light Yellow	N	N	N	M	D	No		No	

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded, NP=not applicable – probe deploy field sheet) (MassDEP 2009c)

Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
BM02	W1945	04/28/09	Musty	Clear	Dark Tan	N	S	N	N	M	No		No	
BM02	W1945	05/29/09	Musty	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
BM02	W1945	06/02/09	None	Slightly Turbid	Light Yellow	N	N	N	N	D	No		No	
BM02	W1945	07/07/09	Musty	Slightly Turbid	Light Yellow	N	N	M	N	S	No		No	
BM02	W1945	08/07/09	Musty	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
BM02	W1945	08/11/09	Musty	Slightly Turbid	Light Yellow	N	N	M	N	M	Yes	foam: probably natural	Yes	trash: light
BM02	W1945	08/27/09	None	Clear	Light Yellow	N	N	S	S	S	No		No	
BM02	W1945	09/11/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
BM02	W1945	09/15/09	None	Clear	Light Yellow	N	N	N	N	M	Yes	foam: natural	No	
GB02	W1942	04/28/09	None	Clear	Clear	N	D	N	N	S	No		No	
GB02	W1942	06/01/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
GB02	W1942	06/02/09	None	Clear	Light Yellow	N	N	N	N	S	No		No	
GB02	W1942	07/07/09	None	Clear	Clear	N	N	N	N	D	No		No	
GB02	W1942	08/10/09	Musty	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
GB02	W1942	08/11/09	None	Clear	Light Yellow	N	N	N	N	M	No		No	

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded, NP=not applicable – probe deploy field sheet) (MassDEP 2009c)

Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
GB02	W1942	08/27/09	None	Clear	Light Yellow	N	N	N	M	S	No		No	
GB02	W1942	09/14/09	None	Clear	Reddish	NP	NP	NP	NP	NP	NP		NP	
GB02	W1942	09/15/09	None	Clear	Light Yellow	N	N	N	M	M	No		No	
HAB010	W0544	04/28/09	Musty	Clear	Clear	N	S	M	N	S	No		Yes	trash
HAB010	W0544	05/29/09	Musty	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
HAB010	W0544	06/02/09	None	Clear	Light Yellow	N	N	N	N	N	No		No	
HAB010	W0544	07/07/09	None	Clear	Light Yellow	N	N	S	N	S	Yes	foam	Yes	trash- 1 cell phone, not sufficient enough to impair aesthetics
HAB010	W0544	08/07/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
HAB010	W0544	08/11/09	Rotting Vegetables	Clear	Light Yellow	N	N	N	N	M	Yes	foam: slight	No	
HAB010	W0544	08/27/09	None	Clear	Light Yellow	N	N	M	N	S	Yes	foam slight	No	
HAB010	W0544	09/11/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
HAB010	W0544	09/15/09	None	Clear	Light Yellow	N	S	N	VD	S	No		No	
MB01	W1938	04/28/09	None	Clear	Light Yellow	S	S	S	N	M	No		No	
MB01	W1938	06/01/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
MB01	W1938	06/02/09	None	Clear	Light Yellow	N	N	N	N	S	No		No	

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
MB01	W1938	06/19/09	Musty	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
MB01	W1938	07/07/09	None	Clear	Reddish	S	N	S	N	S	Yes	foam: slight	No	
MB01	W1938	08/10/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
MB01	W1938	08/11/09	None	Clear	Light Yellow	N	N	S	N	S	No		No	
MB01	W1938	08/27/09	None	Clear	Light Yellow	N	N	S	N	S	No		No	
MB01	W1938	09/14/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
MB01	W1938	09/15/09	None	Clear	Brownish	N	N	N	N	M	No		No	
MB02	W1941	04/28/09	Sulfide	Clear	Light Yellow	N	NR	M	N	N	No		Yes	trash: light
MB02	W1941	06/02/09	Rotting Vegetables	Clear	Light Yellow	N	N	N	N	N	No		No	
MB02	W1941	06/19/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
MB02	W1941	07/07/09	NR	Clear	Light Yellow	N	N	N	N	N	No		No	
MB02	W1941	08/11/09	Musty	Clear	Light Yellow	N	N	N	N	N	No		No	
MB02	W1941	08/27/09	None	Clear	Light Yellow	S	N	N	S	N	No		No	
MB02	W1941	09/15/09	None	Clear	Light Yellow	S	N	N	S	S	No		No	
ME01	W1950	04/28/09	None	Clear	Clear	N	S	D	N	N	No		Yes	trash

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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
ME01	W1950	06/02/09	None	Clear	NR	N	N	N	N	N	No		No	
ME01	W1950	07/07/09	None	Clear	Light Yellow	N	N	N	N	N	No		Yes	trash- slight
ME01	W1950	08/11/09	None	Clear	Light Yellow	N	M	N	M	M	Yes	foam: slight	No	
ME01	W1950	08/27/09	None	Clear	Light Yellow	N	S	NR	S	S	No		Yes	orange floc
ME01	W1950	09/15/09	None	Clear	Clear	N	S	S	N	S	No		No	
MN01	W1939	04/28/09	Musty	Clear	Light Yellow	S	N	S	N	M	No		Yes	trash: light
MN01	W1939	06/02/09	Musty	Clear	Light Yellow	N	N	N	N	M	Yes	foam: minimal/natural	No	
MN01	W1939	07/07/09	None	Clear	Dark Tan	N	U	U	U	U	Yes	foam	No	
MN01	W1939	08/11/09	Rotting Vegetables	Slightly Turbid	Brownish	S	N	VD	N	M	Yes	pollen/dust blankets, foam	No	
MN01	W1939	08/27/09	Pond	Clear	Light Yellow	N	N	NR	N	D	Yes	pollen/dust blankets: upstream and downstream dense, foam: slight, natural	No	
MN01	W1939	09/15/09	Musty	Clear	Light Yellow	N	N	S	N	NR	Yes	foam: slight	No	
MOB032	W1949	04/28/09	Musty	Slightly Turbid	Light Yellow	N	M	M	N	N	No		Yes	trash: major trash impair for aesthetics
MOB032	W1949	06/01/09	Musty	Slightly Turbid	Clear	NP	NP	NP	NP	NP	NP		NP	

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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
MOB032	W1949	06/02/09	None	Moderately Turbid	Light Yellow	N	N	N	N	M	No		Yes	trash
MOB032	W1949	07/07/09	Musty	Clear	Dark Tan	N	U	U	U	U	No		Yes	trash: two bags of trash
MOB032	W1949	08/10/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
MOB032	W1949	08/11/09	Musty	Clear	Light Yellow	N	N	N	N	NR	Yes	pollen/dust blankets: slight	Yes	trash
MOB032	W1949	08/27/09	Musty	Clear	Light Yellow	N	N	M	N	NR	No		Yes	trash
MOB032	W1949	09/14/09	Musty	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
MOB032	W1949	09/15/09	None	Slightly Turbid	Light Yellow	N	N	D	VD	S	No		Yes	moderate trash
MP01	W1946	04/28/09	Musty	Clear	Dark Tan	N	S	N	N	S	No		No	
MP01	W1946	06/02/09	None	Clear	Light Yellow	N	N	S	N	N	No		No	
MP01	W1946	07/07/09	Musty	Clear	Light Yellow	N	N	S	S	N	No		Yes	trash- minimal
MP01	W1946	08/11/09	None	Clear	Light Yellow	Very D	N	S	N	N	No		Yes	other: yard debris
MP01	W1946	08/27/09	Musty	Clear	Light Yellow	N	N	S	S	N	No		No	
MP01	W1946	09/15/09	None	Clear	Clear	N	S	N	M	N	No		Yes	trash, other: lawn clippings, minor
NE11	W1943	04/28/09	None	Clear	Light Yellow	S	M	M	N	N	Yes	pollen/dust blankets: moderate approximately 25% of surface	Yes	trash: light

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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
NE11	W1943	06/01/09	None	Moderately Turbid	Greyish	NP	NP	NP	NP	NP	NP		NP	
NE11	W1943	06/02/09	None	Clear	Light Yellow	S	S	S	N	N	No		Yes	trash: minimal
NE11	W1943	06/04/09	None	Clear	Clear	S	N	D	S	N	No		No	
NE11	W1943	06/19/09	Musty	Moderately Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NE11	W1943	07/06/09	None	Clear	Reddish	S	N	M	N	N	Yes	pollen/dust blankets, other: grass	No	
NE11	W1943	07/07/09	Musty	Clear	Reddish	S	N	N	N	N	Yes	foam	No	
NE11	W1943	08/10/09	NR	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NE11	W1943	08/10/09	None	Clear	Light Yellow	S	S	VD	S	N	No		No	
NE11	W1943	08/11/09	None	Clear	Light Yellow	S	S	VD	S	N	No		No	
NE11	W1943	08/27/09	None	Clear	Light Yellow	N	N	N	D	N	No		No	
NE11	W1943	09/14/09	None	Clear	Reddish	NP	NP	NP	NP	NP	NP		NP	
NE11	W1943	09/15/09	Musty	Clear	Light Yellow	S	U	U	U	U	Yes	foam: slight	No	
NE11	W1943	09/17/09	None	Clear	Light Yellow	S	N	N	N	N	Yes	foam slight	No	
NE11	W1943	09/25/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NE12	W1963	04/28/09	None	Moderately Turbid	Dark Tan	U	M	N	N	N	No		No	

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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
NE12	W1963	05/29/09	None	Clear	Brownish	NP	NP	NP	NP	NP	NP		NP	
NE12	W1963	06/02/09	None	Clear	Light Yellow	N	N	S	N	N	No		Yes	trash: slight
NE12	W1963	06/04/09	None	Clear	Reddish	N	N	S	S	S	Yes	foam	No	
NE12	W1963	07/06/09	Musty	Slightly Turbid	Light Yellow	N	U	U	U	U	Yes	foam	No	
NE12	W1963	07/07/09	None	Slightly Turbid	Light Yellow	U	U	U	U	U	No		Yes	trash- minimal
NE12	W1963	08/07/09	Musty	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NE12	W1963	08/07/09	Musty	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NE12	W1963	08/10/09	None	Slightly Turbid	Light Yellow	N	U	U	U	U	Yes	foam: slight	No	
NE12	W1963	08/11/09	Musty	Clear	Light Yellow	N	N	M	N	S	No		Yes	trash: light
NE12	W1963	08/27/09	None	Slightly Turbid	Light Yellow	N	N	N	N	N	No		U	
NE12	W1963	09/11/09	None	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NE12	W1963	09/15/09	None	Slightly Turbid	Light Yellow	N	N	N	N	S	Yes	foam: natural	No	
NE12	W1963	09/17/09	Musty	Slightly Turbid	Light Yellow	N	N	N	N	N	Yes	foam, slight, probably natural	No	
NE12B	W0568	04/28/09	Musty	Slightly Turbid	Dark Tan	S	N	N	N	N	No		No	
NE12B	W0568	05/29/09	U	Moderately Turbid	Brownish	NP	NP	NP	NP	NP	NP		NP	

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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
NE12B	W0568	06/02/09	None	Moderately Turbid	Brownish	S	N	N	N	S	No		No	
NE12B	W0568	06/04/09	None	Slightly Turbid	Clear	S	N	N	D	S	No		Yes	minimal trash
NE12B	W0568	07/06/09	Musty	Slightly Turbid	Reddish	U	U	U	U	U	Yes	pollen/dust blankets	No	
NE12B	W0568	07/07/09	Musty	Slightly Turbid	Light Yellow	U	U	U	U	U	No		No	
NE12B	W0568	08/07/09	None	Moderately Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NE12B	W0568	08/07/09	None	Moderately Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NE12B	W0568	08/10/09	None	Moderately Turbid	Light Yellow	S	N	N	N	D	No		No	
NE12B	W0568	08/11/09	Musty	Slightly Turbid	Light Yellow	S	U	U	U	U	No		Yes	trash: heavy
NE12B	W0568	08/27/09	None	Moderately Turbid	Light Yellow	S	N	N	S	S	No		Yes	trash
NE12B	W0568	09/11/09	Musty	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NE12B	W0568	09/15/09	None	Clear	Light Yellow	S	U	U	U	U	No		No	
NE12B	W0568	09/17/09	Musty	Moderately Turbid	Light Yellow	S	N	N	N	S	No		Yes	trash
NE12B	W0568	09/25/09	None	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NER185	W1935	04/28/09	None	Clear	Light Yellow	S	NR	S	N	N	Yes	pollen/dust blankets	Yes	trash: moderate
NER185	W1935	06/01/09	None	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	

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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
NER185	W1935	06/02/09	None	Slightly Turbid	Light Yellow	S	U	U	U	U	No		Yes	trash
NER185	W1935	06/04/09	None	Clear	Clear	S	M	N	M	N	Yes	foam, pollen/dust blankets	Yes	trash- two tires
NER185	W1935	06/19/09	Musty	Moderately Turbid	Brownish	NP	NP	NP	NP	NP	NP		NP	
NER185	W1935	07/06/09	Musty	Slightly Turbid	Light Yellow	U	U	U	U	U	Yes	foam	No	
NER185	W1935	07/07/09	Musty	Slightly Turbid	Dark Tan	N	U	U	U	U	No		Yes	trash- minimal, not enough to impair aesthetics
NER185	W1935	08/10/09	None	Moderately Turbid	Brownish	M	VD	N	N	N	No		No	
NER185	W1935	08/10/09	None	Moderately Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NER185	W1935	08/11/09	Musty	Slightly Turbid	Light Yellow	M	M	N	N	NR	Yes		Yes	oily sheens, pollen/dust blankets, foam: slight oil and foam
NER185	W1935	08/27/09	None	Slightly Turbid	Light Yellow	M	M	N	N	N	No		No	
NER185	W1935	09/14/09	Musty	Highly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NER185	W1935	09/15/09	None	Moderately Turbid	Light Yellow	M	U	U	U	U	Yes	foam	No	
NER185	W1935	09/17/09	None	Slightly Turbid	Light Yellow	M	U	U	U	U	No		Yes	trash, tire
NR01	W1933	04/28/09	Musty	Clear	Dark Tan	N	N	N	N	N	No		No	
NR01	W1933	05/29/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	

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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
NR01	W1933	06/02/09	Musty	Clear	Light Yellow	S	N	N	N	N	No		Yes	trash: slight
NR01	W1933	06/04/09	None	Clear	Clear	M	N	S	N	N	Yes	foam	No	
NR01	W1933	07/06/09	None	Slightly Turbid	U	U	U	U	U	U	Yes	pollen/dust blankets	No	
NR01	W1933	07/07/09	Musty	Slightly Turbid	Light Yellow	U	U	U	U	U	U		No	
NR01	W1933	08/07/09	None	Clear	Reddish	NP	NP	NP	NP	NP	NP		NP	
NR01	W1933	08/07/09	None	Clear	Reddish	NP	NP	NP	NP	NP	NP		NP	
NR01	W1933	08/10/09	None	Clear	Light Yellow	S	N	N	N	N	No		No	
NR01	W1933	08/11/09	Musty	Clear	Light Yellow	S	N	NR	S	S	No		Yes	trash: light
NR01	W1933	08/27/09	Musty	Clear	Light Yellow	S	N	S	N	S	No		No	
NR01	W1933	09/11/09	Chlorine	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NR01	W1933	09/15/09	None	Clear	Light Yellow	S	S	N	N	N	No		No	
NR01	W1933	09/17/09	None	Clear	Light Yellow	S	N	S	N	N	Yes	foam	No	
NR03	W1934	04/28/09	None	Slightly Turbid	Light Yellow	U	U	U	U	U	Yes	pollen/dust blankets: slight pollen	Yes	trash: heavy / many shopping carts impair for aesthetics
NR03	W1934	06/01/09	U	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NR03	W1934	06/02/09	Musty	Moderately Turbid	Light Yellow	N	U	U	U	U	Yes	oily sheens: minor sheen	Yes	trash: lots of trash

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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
NR03	W1934	06/19/09	NR	NR	NR	NP	NP	NP	NP	NP	NP		NP	
NR03	W1934	07/07/09	None	Moderately Turbid	Dark Tan	N	U	U	U	U	No		Yes	trash- shopping carts
NR03	W1934	08/10/09	U	Moderately Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
NR03	W1934	08/11/09	None	Highly Turbid	Light Yellow	U	U	U	U	U	Yes	oily sheens	Yes	trash: shopping carts
NR03	W1934	08/27/09	None	Highly Turbid	Light Yellow	U	NR	N	N	N	Yes	pollen/dust blankets	Yes	trash: shopping carts. significant to impair aesthetics
NR03	W1934	09/14/09	U	Highly Turbid	Brownish	NP	NP	NP	NP	NP	NP		NP	
NR03	W1934	09/15/09	Musty	Highly Turbid	Light Yellow	U	U	U	U	U	Yes	oily sheens	Yes	trash: shopping carts
PC01	W1948	04/28/09	None	Clear	Dark Tan	N	M	N	N	N	No		No	
PC01	W1948	05/29/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
PC01	W1948	06/02/09	None	Slightly Turbid	Light Yellow	N	S	N	N	N	No		No	
PC01	W1948	07/07/09	Musty	Moderately Turbid	NR	S	N	S	N	N	No		No	
PC01	W1948	08/07/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
PC01	W1948	08/11/09	None	Clear	Light Yellow	S	N	N	N	S	No		Yes	trash: old midden
PC01	W1948	08/27/09	None	Clear	Clear	N	N	N	S	S	No		No	
PC01	W1948	09/11/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded, NP=not applicable – probe deploy field sheet) (MassDEP 2009c)

Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
PC01	W1948	09/15/09	None	Clear	Clear	N	N	S	S	S	NR		No	
PF01	W1947	04/28/09	None	Clear	Clear	N	N	S	N	N	Yes	oily sheens: natural	Yes	trash: moderate in stream
PF01	W1947	06/02/09	None	Slightly Turbid	Clear	N	N	N	N	N	Yes	pollen/dust blankets	Yes	trash: minimal
PF01	W1947	07/07/09	None	Clear	Dark Tan	N	U	U	U	U	No		No	some trash on bank
PF01	W1947	08/11/09	Musty	Slightly Turbid	Light Yellow	N	N	N	N	N	Yes	foam: slight	No	
PF01	W1947	08/27/09	None	Clear	Light Yellow	N	N	N	M	N	Yes	oily sheens, pollen/dust blankets	No	
PF01	W1947	09/15/09	None	Clear	Light Yellow	N	N	N	M	N	No		No	
POB040	W0566	04/28/09	Musty	Clear	Dark Tan	N	N	N	N	M	No		No	
POB040	W0566	05/29/09	None	Clear	Brownish	NP	NP	NP	NP	NP	NP		NP	
POB040	W0566	06/02/09	None	Clear	Light Yellow	N	N	N	N	M	No		No	
POB040	W0566	07/07/09	None	Slightly Turbid	Light Yellow	N	N	S	S	S	No		No	
POB040	W0566	08/07/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
POB040	W0566	08/11/09	Musty	Clear	Light Yellow	N	N	N	N	S	No		No	
POB040	W0566	08/27/09	None	Clear	Light Yellow	N	N	N	S	S	No		No	
POB040	W0566	09/11/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded, NP=not applicable – probe deploy field sheet) (MassDEP 2009c)

Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
POB040	W0566	09/15/09	Musty	Clear	Light Yellow	N	N	N	N	S	No		No	
POB040	W0566	09/25/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
PQ01	W0559	04/28/09	Musty	Clear	Dark Tan	N	S	N	N	N	No		Yes	trash; three tires, just some light trash, do not impair
PQ01	W0559	05/29/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
PQ01	W0559	06/02/09	None	Moderately Turbid	Brownish	N	N	N	N	N	No		Yes	trash- tires in stream
PQ01	W0559	07/07/09	None	Slightly Turbid	Light Yellow	U	U	U	U	U	No		No	
PQ01	W0559	08/07/09	Musty	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
PQ01	W0559	08/11/09	None	Slightly Turbid	Light Yellow	N	N	S	N	N	No		Yes	trash: light
PQ01	W0559	08/27/09	None	Slightly Turbid	Light Yellow	N	N	N	M	N	No		Yes	trash - moderate
PQ01	W0559	09/11/09	NR	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
PQ01	W0559	09/15/09	None	Slightly Turbid	Light Yellow	N	N	N	VD	N	No		No	
PTB047	W0573	04/28/09	None	Clear	Dark Tan	N	S	N	N	N	No		No	
PTB047	W0573	06/01/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
PTB047	W0573	06/02/09	None	Clear	Light Yellow	S	S	N	N	S	Yes	foam: slight	No	
PTB047	W0573	07/07/09	None	Moderately Turbid	Light Yellow	S	N	S	N	S	No		No	

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded, NP=not applicable – probe deploy field sheet) (MassDEP 2009c)

Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
PTB047	W0573	08/10/09	None	Slightly Turbid	Clear	NP	NP	NP	NP	NP	NP		NP	
PTB047	W0573	08/11/09	None	Clear	Light Yellow	S	S	N	N	S	No		Yes	trash: light
PTB047	W0573	08/27/09	NR	Clear	NR	S	S	N	N	M	No		No	
PTB047	W0573	09/14/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
PTB047	W0573	09/15/09	None	Clear	Clear	S	N	N	N	M	Yes	foam	No	
PU03	W1953	04/28/09	None	Clear	Light Yellow	N	S	M	N	M	Yes	oily sheens, orange floc	Yes	trash: major trash impair for aesthetics, old oil boom
PU03	W1953	06/02/09	None	Clear	Light Yellow	N	N	N	N	M	No		No	
PU03	W1953	06/19/09	Musty	Moderately Turbid	U	NP	NP	NP	NP	NP	NP		NP	
PU03	W1953	07/07/09	None	Clear	Dark Tan	N	N	M	N	S	Yes	foam	Yes	trash- minimal
PU03	W1953	08/11/09	Petroleum	Slightly Turbid	Light Yellow	N	N	N	N	S	Yes	oily sheens, foam: both slight	Yes	orange floc: natural
PU03	W1953	08/27/09	None	Clear	Light Yellow	N	N	N	D	N	Yes	foam	Yes	orange floc
PU03	W1953	09/15/09	None	Clear	Light Yellow	N	N	N	N	S	No		No	
SH01	W1944	04/28/09	Musty	Clear	Dark Tan	N	M	N	N	N	No		No	
SH01	W1944	06/02/09	None	Slightly Turbid	Light Yellow	N	N	S	N	S	No		No	
SH01	W1944	07/07/09	None	Clear	Light Yellow	N	N	N	N	S	No		No	

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded, NP=not applicable – probe deploy field sheet) (MassDEP 2009c)

Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
SH01	W1944	08/11/09	None	Clear	Light Yellow	N	N	N	N	S	No		Yes	trash: moderate
SH01	W1944	08/27/09	None	Slightly Turbid	Light Yellow	N	N	S	M	N	No		No	
SH01	W1944	09/15/09	None	Clear	Clear	N	N	M	D	N	No		No	
SM02	W1936	04/28/09	None	Clear	Light Yellow	S	S	M	N	M	No		Yes	trash: light
SM02	W1936	06/02/09	None	Slightly Turbid	Light Yellow	M	N	S	N	S	No		No	
SM02	W1936	07/07/09	None	Clear	Reddish	D	N	N	N	N	No		No	
SM02	W1936	08/11/09	Musty	Clear	Light Yellow	Very D	N	N	N	S	No		No	
SM02	W1936	08/27/09	None	Clear	Light Yellow	Very D	N	N	N	M	No		No	
SM02	W1936	09/15/09	Musty	Clear	Light Yellow	Very D	N	N	N	S	No		No	
TH02	W0551	04/28/09	None	Clear	Dark Tan	N	D	S	N	N	No		No	
TH02	W0551	05/29/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
TH02	W0551	06/02/09	Musty	Clear	Clear	S	D	N	N	N	No		No	
TH02	W0551	06/19/09	None	Slightly Turbid	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
TH02	W0551	07/07/09	Musty	Clear	Clear	S	S	S	N	M	No		No	
TH02	W0551	08/07/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded, NP=not applicable – probe deploy field sheet) (MassDEP 2009c)

Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
TH02	W0551	08/11/09	None	Clear	Clear	N	M	N	N	M	No		Yes	trash: light
TH02	W0551	08/27/09	None	Clear	Light Yellow	N	S	S	S	M	No		No	
TH02	W0551	09/11/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
TH02	W0551	09/15/09	None	Clear	Clear	N	N	N	N	D	No		No	
TK01	W1937	04/28/09	None	Clear	Clear	S	S	S	N	N	No		No	
TK01	W1937	06/01/09	None	Clear	Brownish	NP	NP	NP	NP	NP	NP		NP	
TK01	W1937	06/02/09	Chlorine	Clear	Clear	N	N	N	N	N	No		No	
TK01	W1937	06/19/09	Musty	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
TK01	W1937	07/07/09	None	Clear	Light Yellow	S	N	N	N	N	No		No	
TK01	W1937	08/10/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
TK01	W1937	08/11/09	None	Clear	Light Yellow	N	N	N	N	N	No		No	
TK01	W1937	08/27/09	None	Clear	Light Yellow	N	N	N	N	N	No		No	
TK01	W1937	09/14/09	None	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
TK01	W1937	09/15/09	Chlorine	Clear	Clear	N	N	N	N	N	No		No	
UQ01	W0579	04/28/09	None	Clear	Clear	N	S	N	N	S	No		Yes	trash: light trash, do not impair for trash

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
S=sparse (0-25%, M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded, NP=not applicable – probe deploy field sheet) (MassDEP 2009c)

Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
UQ01	W0579	06/01/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
UQ01	W0579	06/02/09	None	Clear	Clear	M	N	N	N	M	No		No	
UQ01	W0579	07/07/09	None	Highly Turbid	U	S	N	N	N	S	No		No	
UQ01	W0579	08/10/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
UQ01	W0579	08/11/09	None	Clear	Clear	S	M	N	N	M	No		No	
UQ01	W0579	08/27/09	None	Clear	Clear	S	S	N	N	D	No		No	
UQ01	W0579	09/14/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
UQ01	W0579	09/15/09	None	Clear	Clear	S	N	N	N	D	No		No	
UQ01	W0579	09/25/09	None	Clear	Clear	NP	NP	NP	NP	NP	NP		NP	
UT01	W1952	04/28/09	Musty	Clear	Clear	S	M	M	N	N	No		Yes	trash: heavy trash, impair for aesthetics
UT01	W1952	06/01/09	NR	Slightly Turbid	Brownish	NP	NP	NP	NP	NP	NP		NP	
UT01	W1952	06/02/09	Musty	Clear	Light Yellow	N	N	D	N	N	No		Yes	trash
UT01	W1952	07/07/09	None	Clear	Light Yellow	N	N	S	N	N	Yes	foam: slight	Yes	trash: shopping cart, bicycle
UT01	W1952	08/10/09	Musty	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
UT01	W1952	08/11/09	Musty	Clear	Light Yellow	N	M	VD	N	N	Yes	foam: slight	Yes	trash: shopping cart, bike
UT01	W1952	08/27/09	None	Clear	Light	N	M	N	N	N	Yes	foam: slight	Yes	trash, shopping cart,

Table 5. 2009 Field observations from MassDEP DWM Neponset River Watershed river surveys.
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Station ID	Unique ID	Date	Odor	Water Clarity	Color	Aquatic Plants	Filamentous Algae	Film Algae	Loose Floc	Moss	Floating Scum	Floating Scum Comments	Objectionable Deposits	Objectionable Deposit Comments
					Yellow									bike
UT01	W1952	09/14/09	Musty	Clear	Light Yellow	NP	NP	NP	NP	NP	NP		NP	
UT01	W1952	09/15/09	Musty	Clear	Light Yellow	N	M	VD	N	N	Yes	foam: slight	Yes	trash- bicycles, shopping cart, some small trash (cans)
UTSH01	W1951	04/28/09	Musty	Clear	Dark Tan	N	N	S	N	N	No		No	
UTSH01	W1951	06/02/09	None	Slightly Turbid	Light Yellow	N	N	N	N	N	No		No	
UTSH01	W1951	07/07/09	None	Clear	Light Yellow	N	N	S	S	N	No		No	
UTSH01	W1951	08/11/09	None	Clear	Light Yellow	N	N	N	N	N	No		Yes	trash: light
UTSH01	W1951	08/27/09	None	Clear	Light Yellow	N	N	N	M	N	No		No	
UTSH01	W1951	09/15/09	None	Clear	Clear	N	N	N	M	N	No		No	

Table 6. 2009 Field observations from MassDEP DWM Neponset River Watershed lake surveys.
S=sparse (0-25%), M=moderate (25-50%), D=dense (50-75%), VD=very dense (75-100%), N=none, U=unobservable, NR=not recorded) (MassDEP 2009c)

							Areal Density								
Station ID	**Unique ID**	**Date**	**Odor**	**Clarity**	**Color**	**Secchi (meters)**	**Algae**	**Emergent**	**Floating**	**Submerged**	**Overall Density**	**Floating Scum**	**Floating Scum Comments**	**Objectionable Deposits**	**Objectionable Deposits Comments**
RESP	W2096	07/23/09	None	Slightly Turbid	Brownish	1.4	NR	S	N	S	S	No		No	
PONK	W2097	07/23/09	None	Slightly Turbid	Brownish	2.3	S	S	S	VD	VD	No		No	
RESP	W2096	08/20/09	None	Clear	Brownish	1.2	S	N	N	NR	NR	No		No	
PONK	W2097	08/20/09	None	Clear	Brownish	2.3	S	N	S	M	M	No		No	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
BB01	W0557	73-0207	04/28/09	10:24	*E. coli*	CFU/100mL	70	
BB01	W0557	73-0301	06/02/09	9:58	*E. coli*	CFU/100mL	50	
BB01	W0557	73-0382	07/07/09	10:20	*E. coli*	CFU/100mL	40	
BB01	W0557	73-0499	08/11/09	10:18	*E. coli*	CFU/100mL	120	
BB01	W0557	73-0543	08/27/09	10:55	*E. coli*	CFU/100mL	100	
BB01	W0557	73-0637	09/15/09	10:55	*E. coli*	CFU/100mL	30	
BB01	W0557	73-0207	04/28/09	10:24	Ammonia-N	mg/L	0.03	
BB01	W0557	73-0301	06/02/09	9:58	Ammonia-N	mg/L	<0.02	
BB01	W0557	73-0382	07/07/09	10:20	Ammonia-N	mg/L	0.02	
BB01	W0557	73-0499	08/11/09	10:18	Ammonia-N	mg/L	0.02	
BB01	W0557	73-0637	09/15/09	10:55	Ammonia-N	mg/L	0.02	
BB01	W0557	73-0207	04/28/09	10:24	Total Nitrogen	mg/L	0.97	
BB01	W0557	73-0301	06/02/09	9:58	Total Nitrogen	mg/L	1.6	
BB01	W0557	73-0382	07/07/09	10:20	Total Nitrogen	mg/L	0.67	
BB01	W0557	73-0499	08/11/09	10:18	Total Nitrogen	mg/L	0.40	
BB01	W0557	73-0637	09/15/09	10:55	Total Nitrogen	mg/L	0.42	
BB01	W0557	73-0207	04/28/09	10:24	Total Phosphorus	mg/L	0.020	
BB01	W0557	73-0301	06/02/09	9:58	Total Phosphorus	mg/L	0.012	
BB01	W0557	73-0382	07/07/09	10:20	Total Phosphorus	mg/L	0.026	
BB01	W0557	73-0499	08/11/09	10:18	Total Phosphorus	mg/L	0.025	
BB01	W0557	73-0637	09/15/09	10:55	Total Phosphorus	mg/L	0.015	
BB01	W0557	73-0207	04/28/09	10:24	Turbidity	NTU	2.1	
BB01	W0557	73-0301	06/02/09	9:58	Turbidity	NTU	2.2	b
BB01	W0557	73-0382	07/07/09	10:20	Turbidity	NTU	1.1	
BB01	W0557	73-0499	08/11/09	10:18	Turbidity	NTU	3.5	
BB01	W0557	73-0637	09/15/09	10:55	Turbidity	NTU	0.7	
BB01	W0557	73-0207	04/28/09	10:24	True Color	PCU	53	
BB01	W0557	73-0301	06/02/09	9:58	True Color	PCU	31	
BB01	W0557	73-0382	07/07/09	10:20	True Color	PCU	80	
BB01	W0557	73-0499	08/11/09	10:18	True Color	PCU	51	
BB01	W0557	73-0637	09/15/09	10:55	True Color	PCU	79	
BB02	W1940	73-0222	04/28/09	10:03	*E. coli*	CFU/100mL	10	
BB02	W1940	73-0316	06/02/09	9:57	*E. coli*	CFU/100mL	40	
BB02	W1940	73-0401	07/07/09	10:16	*E. coli*	CFU/100mL	130	
BB02	W1940	73-0518	08/11/09	10:17	*E. coli*	CFU/100mL	480	
BB02	W1940	73-0560	08/27/09	10:30	*E. coli*	CFU/100mL	##	b
BB02	W1940	73-0654	09/15/09	10:54	*E. coli*	CFU/100mL	210	
BM02	W1945	73-0210	04/28/09	11:00	*E. coli*	CFU/100mL	40	
BM02	W1945	73-0304	06/02/09	10:36	*E. coli*	CFU/100mL	80	
BM02	W1945	73-0385	07/07/09	11:15	*E. coli*	CFU/100mL	460	
BM02	W1945	73-0502	08/11/09	11:02	*E. coli*	CFU/100mL	500	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
BM02	W1945	73-0546	08/27/09	11:45	*E. coli*	CFU/100mL	440	
BM02	W1945	73-0640	09/15/09	11:52	*E. coli*	CFU/100mL	180	
BM02	W1945	73-0210	04/28/09	11:00	Ammonia-N	mg/L	<0.02	
BM02	W1945	73-0304	06/02/09	10:36	Ammonia-N	mg/L	0.07	
BM02	W1945	73-0385	07/07/09	11:15	Ammonia-N	mg/L	0.07	
BM02	W1945	73-0502	08/11/09	11:02	Ammonia-N	mg/L	0.04	
BM02	W1945	73-0640	09/15/09	11:52	Ammonia-N	mg/L	0.04	
BM02	W1945	73-0210	04/28/09	11:00	Total Nitrogen	mg/L	0.50	
BM02	W1945	73-0304	06/02/09	10:36	Total Nitrogen	mg/L	0.67	
BM02	W1945	73-0385	07/07/09	11:15	Total Nitrogen	mg/L	0.78	
BM02	W1945	73-0502	08/11/09	11:02	Total Nitrogen	mg/L	0.70	
BM02	W1945	73-0640	09/15/09	11:52	Total Nitrogen	mg/L	0.53	
BM02	W1945	73-0210	04/28/09	11:00	Total Phosphorus	mg/L	0.022	
BM02	W1945	73-0304	06/02/09	10:36	Total Phosphorus	mg/L	0.031	
BM02	W1945	73-0385	07/07/09	11:15	Total Phosphorus	mg/L	0.054	
BM02	W1945	73-0502	08/11/09	11:02	Total Phosphorus	mg/L	0.046	
BM02	W1945	73-0640	09/15/09	11:52	Total Phosphorus	mg/L	0.032	
BM02	W1945	73-0210	04/28/09	11:00	Turbidity	NTU	2.0	
BM02	W1945	73-0304	06/02/09	10:36	Turbidity	NTU	6.6	b
BM02	W1945	73-0385	07/07/09	11:15	Turbidity	NTU	9.7	
BM02	W1945	73-0502	08/11/09	11:02	Turbidity	NTU	6.4	
BM02	W1945	73-0640	09/15/09	11:52	Turbidity	NTU	3.8	
BM02	W1945	73-0210	04/28/09	11:00	True Color	PCU	75	
BM02	W1945	73-0304	06/02/09	10:36	True Color	PCU	60	
BM02	W1945	73-0385	07/07/09	11:15	True Color	PCU	145	
BM02	W1945	73-0502	08/11/09	11:02	True Color	PCU	95	
BM02	W1945	73-0640	09/15/09	11:52	True Color	PCU	80	
GB02	W1942	73-0224	04/28/09	10:18	*E. coli*	CFU/100mL	60	
GB02	W1942	73-0318	06/02/09	10:18	*E. coli*	CFU/100mL	60	
GB02	W1942	73-0403	07/07/09	10:35	*E. coli*	CFU/100mL	160	
GB02	W1942	73-0520	08/11/09	10:35	*E. coli*	CFU/100mL	1100	
GB02	W1942	73-0562	08/27/09	10:47	*E. coli*	CFU/100mL	##	b
GB02	W1942	73-0656	09/15/09	11:11	*E. coli*	CFU/100mL	470	
GB02	W1942	73-0224	04/28/09	10:18	Ammonia-N	mg/L	0.04	
GB02	W1942	73-0318	06/02/09	10:18	Ammonia-N	mg/L	0.04	
GB02	W1942	73-0403	07/07/09	10:35	Ammonia-N	mg/L	0.06	
GB02	W1942	73-0520	08/11/09	10:35	Ammonia-N	mg/L	0.03	
GB02	W1942	73-0656	09/15/09	11:11	Ammonia-N	mg/L	0.06	
GB02	W1942	73-0224	04/28/09	10:18	Total Nitrogen	mg/L	1.4	
GB02	W1942	73-0318	06/02/09	10:18	Total Nitrogen	mg/L	2.0	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
GB02	W1942	73-0403	07/07/09	10:35	Total Nitrogen	mg/L	1.9	
GB02	W1942	73-0520	08/11/09	10:35	Total Nitrogen	mg/L	2.0	
GB02	W1942	73-0656	09/15/09	11:11	Total Nitrogen	mg/L	1.7	
GB02	W1942	73-0224	04/28/09	10:18	Total Phosphorus	mg/L	0.019	
GB02	W1942	73-0318	06/02/09	10:18	Total Phosphorus	mg/L	0.026	
GB02	W1942	73-0403	07/07/09	10:35	Total Phosphorus	mg/L	0.035	
GB02	W1942	73-0520	08/11/09	10:35	Total Phosphorus	mg/L	0.028	
GB02	W1942	73-0656	09/15/09	11:11	Total Phosphorus	mg/L	0.036	
GB02	W1942	73-0224	04/28/09	10:18	Turbidity	NTU	1.3	
GB02	W1942	73-0318	06/02/09	10:18	Turbidity	NTU	2.3	b, d
GB02	W1942	73-0403	07/07/09	10:35	Turbidity	NTU	2.5	
GB02	W1942	73-0520	08/11/09	10:35	Turbidity	NTU	2.3	
GB02	W1942	73-0656	09/15/09	11:11	Turbidity	NTU	1.5	
GB02	W1942	73-0224	04/28/09	10:18	True Color	PCU	55	
GB02	W1942	73-0318	06/02/09	10:18	True Color	PCU	51	
GB02	W1942	73-0403	07/07/09	10:35	True Color	PCU	110	
GB02	W1942	73-0520	08/11/09	10:35	True Color	PCU	85	
GB02	W1942	73-0656	09/15/09	11:11	True Color	PCU	155	
HAB010	W0544	73-0227	04/28/09	10:32	*E. coli*	CFU/100mL	250	
HAB010	W0544	73-0321	06/02/09	10:34	*E. coli*	CFU/100mL	190	
HAB010	W0544	73-0404	07/07/09	10:57	*E. coli*	CFU/100mL	530	
HAB010	W0544	73-0521	08/11/09	10:51	*E. coli*	CFU/100mL	260	
HAB010	W0544	73-0563	08/27/09	10:59	*E. coli*	CFU/100mL	##	b
HAB010	W0544	73-0657	09/15/09	11:27	*E. coli*	CFU/100mL	100	
HAB010	W0544	73-0227	04/28/09	10:32	Ammonia-N	mg/L	0.04	
HAB010	W0544	73-0321	06/02/09	10:34	Ammonia-N	mg/L	0.05	
HAB010	W0544	73-0404	07/07/09	10:57	Ammonia-N	mg/L	0.04	
HAB010	W0544	73-0521	08/11/09	10:51	Ammonia-N	mg/L	0.03	
HAB010	W0544	73-0657	09/15/09	11:27	Ammonia-N	mg/L	0.04	
HAB010	W0544	73-0227	04/28/09	10:32	Total Nitrogen	mg/L	0.97	
HAB010	W0544	73-0321	06/02/09	10:34	Total Nitrogen	mg/L	0.81	
HAB010	W0544	73-0404	07/07/09	10:57	Total Nitrogen	mg/L	0.76	
HAB010	W0544	73-0521	08/11/09	10:51	Total Nitrogen	mg/L	0.60	
HAB010	W0544	73-0657	09/15/09	11:27	Total Nitrogen	mg/L	0.78	
HAB010	W0544	73-0227	04/28/09	10:32	Total Phosphorus	mg/L	0.030	
HAB010	W0544	73-0321	06/02/09	10:34	Total Phosphorus	mg/L	0.023	
HAB010	W0544	73-0404	07/07/09	10:57	Total Phosphorus	mg/L	0.021	
HAB010	W0544	73-0521	08/11/09	10:51	Total Phosphorus	mg/L	0.019	
HAB010	W0544	73-0657	09/15/09	11:27	Total Phosphorus	mg/L	0.018	
HAB010	W0544	73-0227	04/28/09	10:32	Turbidity	NTU	0.8	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
HAB010	W0544	73-0321	06/02/09	10:34	Turbidity	NTU	1.3	b
HAB010	W0544	73-0404	07/07/09	10:57	Turbidity	NTU	1.4	
HAB010	W0544	73-0521	08/11/09	10:51	Turbidity	NTU	0.9	
HAB010	W0544	73-0657	09/15/09	11:27	Turbidity	NTU	0.9	
HAB010	W0544	73-0227	04/28/09	10:32	True Color	PCU	29	
HAB010	W0544	73-0321	06/02/09	10:34	True Color	PCU	30	
HAB010	W0544	73-0404	07/07/09	10:57	True Color	PCU	43	
HAB010	W0544	73-0521	08/11/09	10:51	True Color	PCU	37	
HAB010	W0544	73-0657	09/15/09	11:27	True Color	PCU	52	
MB01	W1938	73-0220	04/28/09	9:37	*E. coli*	CFU/100mL	10	
MB01	W1938	73-0314	06/02/09	9:31	*E. coli*	CFU/100mL	30	
MB01	W1938	73-0399	07/07/09	9:48	*E. coli*	CFU/100mL	90	
MB01	W1938	73-0514	08/11/09	9:46	*E. coli*	CFU/100mL	230	
MB01	W1938	73-0558	08/27/09	10:09	*E. coli*	CFU/100mL	##	b
MB01	W1938	73-0652	09/15/09	10:30	*E. coli*	CFU/100mL	50	
MB01	W1938	73-0220	04/28/09	9:37	Ammonia-N	mg/L	<0.02	
MB01	W1938	73-0314	06/02/09	9:31	Ammonia-N	mg/L	0.03	
MB01	W1938	73-0399	07/07/09	9:48	Ammonia-N	mg/L	0.04	
MB01	W1938	73-0514	08/11/09	9:46	Ammonia-N	mg/L	0.04	
MB01	W1938	73-0652	09/15/09	10:30	Ammonia-N	mg/L	0.03	
MB01	W1938	73-0220	04/28/09	9:37	Total Nitrogen	mg/L	0.83	
MB01	W1938	73-0314	06/02/09	9:31	Total Nitrogen	mg/L	1.0	
MB01	W1938	73-0399	07/07/09	9:48	Total Nitrogen	mg/L	0.98	
MB01	W1938	73-0514	08/11/09	9:46	Total Nitrogen	mg/L	0.87	
MB01	W1938	73-0652	09/15/09	10:30	Total Nitrogen	mg/L	1.0	
MB01	W1938	73-0220	04/28/09	9:37	Total Phosphorus	mg/L	0.018	
MB01	W1938	73-0314	06/02/09	9:31	Total Phosphorus	mg/L	0.021	
MB01	W1938	73-0399	07/07/09	9:48	Total Phosphorus	mg/L	0.030	
MB01	W1938	73-0514	08/11/09	9:46	Total Phosphorus	mg/L	0.031	
MB01	W1938	73-0652	09/15/09	10:30	Total Phosphorus	mg/L	0.040	
MB01	W1938	73-0220	04/28/09	9:37	Turbidity	NTU	1.0	
MB01	W1938	73-0314	06/02/09	9:31	Turbidity	NTU	1.3	b
MB01	W1938	73-0399	07/07/09	9:48	Turbidity	NTU	3.2	
MB01	W1938	73-0514	08/11/09	9:46	Turbidity	NTU	1.3	
MB01	W1938	73-0652	09/15/09	10:30	Turbidity	NTU	1.3	
MB01	W1938	73-0220	04/28/09	9:37	True Color	PCU	100	
MB01	W1938	73-0314	06/02/09	9:31	True Color	PCU	125	
MB01	W1938	73-0399	07/07/09	9:48	True Color	PCU	215	
MB01	W1938	73-0514	08/11/09	9:46	True Color	PCU	105	
MB01	W1938	73-0652	09/15/09	10:30	True Color	PCU	215	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
MB02	W1941	73-0223	04/28/09	10:08	*E. coli*	CFU/100mL	40	
MB02	W1941	73-0317	06/02/09	10:06	*E. coli*	CFU/100mL	30	
MB02	W1941	73-0402	07/07/09	10:25	*E. coli*	CFU/100mL	170	
MB02	W1941	73-0519	08/11/09	10:25	*E. coli*	CFU/100mL	355	
MB02	W1941	73-0561	08/27/09	10:39	*E. coli*	CFU/100mL	##	b
MB02	W1941	73-0655	09/15/09	11:00	*E. coli*	CFU/100mL	350	
ME01	W1950	73-0228	04/28/09	10:48	*E. coli*	CFU/100mL	80	
ME01	W1950	73-0322	06/02/09	10:48	*E. coli*	CFU/100mL	300	
ME01	W1950	73-0405	07/07/09	11:05	*E. coli*	CFU/100mL	1700	
ME01	W1950	73-0522	08/11/09	11:06	*E. coli*	CFU/100mL	5600	
ME01	W1950	73-0564	08/27/09	11:13	*E. coli*	CFU/100mL	##	b
ME01	W1950	73-0658	09/15/09	11:40	*E. coli*	CFU/100mL	760	
MN01	W1939	73-0219	04/28/09	9:18	*E. coli*	CFU/100mL	10	
MN01	W1939	73-0313	06/02/09	9:12	*E. coli*	CFU/100mL	<10	
MN01	W1939	73-0398	07/07/09	9:30	*E. coli*	CFU/100mL	60	
MN01	W1939	73-0513	08/11/09	9:25	*E. coli*	CFU/100mL	40	
MN01	W1939	73-0557	08/27/09	9:44	*E. coli*	CFU/100mL	##	b
MN01	W1939	73-0651	09/15/09	10:10	*E. coli*	CFU/100mL	<10	
MOB032	W1949	73-0231	04/28/09	11:41	*E. coli*	CFU/100mL	20	
MOB032	W1949	73-0325	06/02/09	11:43	*E. coli*	CFU/100mL	90	
MOB032	W1949	73-0408	07/07/09	11:54	*E. coli*	CFU/100mL	300	
MOB032	W1949	73-0525	08/11/09	12:01	*E. coli*	CFU/100mL	70	
MOB032	W1949	73-0567	08/27/09	12:19	*E. coli*	CFU/100mL	##	b
MOB032	W1949	73-0661	09/15/09	12:38	*E. coli*	CFU/100mL	60	
MOB032	W1949	73-0231	04/28/09	11:41	Ammonia-N	mg/L	0.02	
MOB032	W1949	73-0325	06/02/09	11:43	Ammonia-N	mg/L	0.03	
MOB032	W1949	73-0408	07/07/09	11:54	Ammonia-N	mg/L	0.07	
MOB032	W1949	73-0525	08/11/09	12:01	Ammonia-N	mg/L	0.07	
MOB032	W1949	73-0661	09/15/09	12:38	Ammonia-N	mg/L	0.02	
MOB032	W1949	73-0231	04/28/09	11:41	Total Nitrogen	mg/L	0.76	
MOB032	W1949	73-0325	06/02/09	11:43	Total Nitrogen	mg/L	0.81	
MOB032	W1949	73-0408	07/07/09	11:54	Total Nitrogen	mg/L	1.0	
MOB032	W1949	73-0525	08/11/09	12:01	Total Nitrogen	mg/L	0.76	
MOB032	W1949	73-0661	09/15/09	12:38	Total Nitrogen	mg/L	0.64	
MOB032	W1949	73-0231	04/28/09	11:41	Total Phosphorus	mg/L	0.046	
MOB032	W1949	73-0325	06/02/09	11:43	Total Phosphorus	mg/L	0.071	
MOB032	W1949	73-0408	07/07/09	11:54	Total Phosphorus	mg/L	0.080	
MOB032	W1949	73-0525	08/11/09	12:01	Total Phosphorus	mg/L	0.064	
MOB032	W1949	73-0661	09/15/09	12:38	Total Phosphorus	mg/L	0.035	
MOB032	W1949	73-0231	04/28/09	11:41	Turbidity	NTU	3.4	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
MOB032	W1949	73-0325	06/02/09	11:43	Turbidity	NTU	6.7	b
MOB032	W1949	73-0408	07/07/09	11:54	Turbidity	NTU	3.8	
MOB032	W1949	73-0525	08/11/09	12:01	Turbidity	NTU	1.4	
MOB032	W1949	73-0661	09/15/09	12:38	Turbidity	NTU	2.2	
MOB032	W1949	73-0231	04/28/09	11:41	True Color	PCU	53	
MOB032	W1949	73-0325	06/02/09	11:43	True Color	PCU	34	
MOB032	W1949	73-0408	07/07/09	11:54	True Color	PCU	110	
MOB032	W1949	73-0525	08/11/09	12:01	True Color	PCU	74	
MOB032	W1949	73-0661	09/15/09	12:38	True Color	PCU	24	
MP01	W1946	73-0206	04/28/09	10:06	*E. coli*	CFU/100mL	40	
MP01	W1946	73-0300	06/02/09	9:44	*E. coli*	CFU/100mL	<10	
MP01	W1946	73-0381	07/07/09	10:00	*E. coli*	CFU/100mL	70	
MP01	W1946	73-0498	08/11/09	10:02	*E. coli*	CFU/100mL	40	
MP01	W1946	73-0542	08/27/09	10:36	*E. coli*	CFU/100mL	10	
MP01	W1946	73-0636	09/15/09	10:38	*E. coli*	CFU/100mL	100	
NE11	W1943	73-0218	04/28/09	9:10	*E. coli*	CFU/100mL	<10	
NE11	W1943	73-0312	06/02/09	9:00	*E. coli*	CFU/100mL	180	
NE11	W1943	73-0395	07/07/09	9:17	*E. coli*	CFU/100mL	130	
NE11	W1943	73-0512	08/11/09	9:12	*E. coli*	CFU/100mL	330	
NE11	W1943	73-0556	08/27/09	9:36	*E. coli*	CFU/100mL	##	b
NE11	W1943	73-0650	09/15/09	10:10	*E. coli*	CFU/100mL	160	
NE11	W1943	73-0218	04/28/09	9:10	Ammonia-N	mg/L	<0.02	
NE11	W1943	73-0312	06/02/09	9:00	Ammonia-N	mg/L	0.03	
NE11	W1943	73-0395	07/07/09	9:17	Ammonia-N	mg/L	0.04	
NE11	W1943	73-0512	08/11/09	9:12	Ammonia-N	mg/L	0.03	
NE11	W1943	73-0650	09/15/09	10:10	Ammonia-N	mg/L	0.02	
NE11	W1943	73-0312	06/02/09	9:00	Nitrate/Nitrite-N	mg/L	##	r
NE11	W1943	73-0218	04/28/09	9:10	Total Nitrogen	mg/L	0.44	
NE11	W1943	73-0312	06/02/09	9:00	Total Nitrogen	mg/L	0.80	
NE11	W1943	73-0395	07/07/09	9:17	Total Nitrogen	mg/L	0.77	
NE11	W1943	73-0512	08/11/09	9:12	Total Nitrogen	mg/L	0.75	
NE11	W1943	73-0650	09/15/09	10:10	Total Nitrogen	mg/L	0.55	
NE11	W1943	73-0218	04/28/09	9:10	Total Phosphorus	mg/L	0.025	
NE11	W1943	73-0312	06/02/09	9:00	Total Phosphorus	mg/L	0.027	
NE11	W1943	73-0395	07/07/09	9:17	Total Phosphorus	mg/L	0.046	
NE11	W1943	73-0512	08/11/09	9:12	Total Phosphorus	mg/L	0.035	
NE11	W1943	73-0650	09/15/09	10:10	Total Phosphorus	mg/L	0.037	
NE11	W1943	73-0218	04/28/09	9:10	Turbidity	NTU	1.5	
NE11	W1943	73-0312	06/02/09	9:00	Turbidity	NTU	2.6	b
NE11	W1943	73-0395	07/07/09	9:17	Turbidity	NTU	3.3	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NE11	W1943	73-0512	08/11/09	9:12	Turbidity	NTU	2.0	
NE11	W1943	73-0650	09/15/09	10:10	Turbidity	NTU	1.6	
NE11	W1943	73-0218	04/28/09	9:10	True Color	PCU	42	
NE11	W1943	73-0312	06/02/09	9:00	True Color	PCU	31	
NE11	W1943	73-0395	07/07/09	9:17	True Color	PCU	100	
NE11	W1943	73-0512	08/11/09	9:12	True Color	PCU	43	
NE11	W1943	73-0650	09/15/09	10:10	True Color	PCU	55	
NE11	W1943	73-0328	06/04/09	9:45	Hardness	mg/L as CaCO3	69	
NE11	W1943	73-0372	07/06/09	9:10	Hardness	mg/L as CaCO3	44	f
NE11	W1943	73-0487	08/10/09	9:23	Hardness	mg/L as CaCO3	59	
NE11	W1943	73-0666	09/17/09	11:20	Hardness	mg/L as CaCO3	45	
NE11	W1943	73-0328	06/04/09	9:45	Aluminum - Dissolved	µg/L	<40	
NE11	W1943	73-0372	07/06/09	9:10	Aluminum - Dissolved	µg/L	<40	f
NE11	W1943	73-0487	08/10/09	9:23	Aluminum - Dissolved	µg/L	<40	
NE11	W1943	73-0666	09/17/09	11:20	Aluminum - Dissolved	µg/L	<50	
NE11	W1943	73-0328	06/04/09	9:45	Antimony - Dissolved	µg/L	<0.15	
NE11	W1943	73-0372	07/06/09	9:10	Antimony - Dissolved	µg/L	<0.15	f
NE11	W1943	73-0487	08/10/09	9:23	Antimony - Dissolved	µg/L	0.24	
NE11	W1943	73-0666	09/17/09	11:20	Antimony - Dissolved	µg/L	0.17	d
NE11	W1943	73-0328	06/04/09	9:45	Arsenic - Dissolved	µg/L	<0.51	
NE11	W1943	73-0372	07/06/09	9:10	Arsenic - Dissolved	µg/L	<0.51	f
NE11	W1943	73-0487	08/10/09	9:23	Arsenic - Dissolved	µg/L	0.57	
NE11	W1943	73-0666	09/17/09	11:20	Arsenic - Dissolved	µg/L	<1.0	
NE11	W1943	73-0328	06/04/09	9:45	Beryllium - Dissolved	µg/L	<0.20	
NE11	W1943	73-0372	07/06/09	9:10	Beryllium - Dissolved	µg/L	<0.20	f
NE11	W1943	73-0487	08/10/09	9:23	Beryllium - Dissolved	µg/L	<0.20	
NE11	W1943	73-0666	09/17/09	11:20	Beryllium - Dissolved	µg/L	<0.20	
NE11	W1943	73-0328	06/04/09	9:45	Cadmium - Dissolved	µg/L	<0.13	
NE11	W1943	73-0372	07/06/09	9:10	Cadmium - Dissolved	µg/L	<0.13	f
NE11	W1943	73-0487	08/10/09	9:23	Cadmium - Dissolved	µg/L	<0.13	
NE11	W1943	73-0666	09/17/09	11:20	Cadmium - Dissolved	µg/L	<0.13	
NE11	W1943	73-0328	06/04/09	9:45	Calcium - Dissolved	mg/L	19	
NE11	W1943	73-0372	07/06/09	9:10	Calcium - Dissolved	mg/L	13	f
NE11	W1943	73-0487	08/10/09	9:23	Calcium - Dissolved	mg/L	17	
NE11	W1943	73-0666	09/17/09	11:20	Calcium - Dissolved	mg/L	13	
NE11	W1943	73-0328	06/04/09	9:45	Chromium - Dissolved	µg/L	0.25	
NE11	W1943	73-0372	07/06/09	9:10	Chromium - Dissolved	µg/L	0.29	f
NE11	W1943	73-0487	08/10/09	9:23	Chromium - Dissolved	µg/L	0.28	d
NE11	W1943	73-0666	09/17/09	11:20	Chromium - Dissolved	µg/L	0.24	
NE11	W1943	73-0328	06/04/09	9:45	Copper - Dissolved	µg/L	0.98	d, j

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NE11	W1943	73-0372	07/06/09	9:10	Copper - Dissolved	µg/L	1.4	f
NE11	W1943	73-0487	08/10/09	9:23	Copper - Dissolved	µg/L	3.4	d, j
NE11	W1943	73-0666	09/17/09	11:20	Copper - Dissolved	µg/L	1.6	j
NE11	W1943	73-0328	06/04/09	9:45	Lead - Dissolved	µg/L	0.42	
NE11	W1943	73-0372	07/06/09	9:10	Lead - Dissolved	µg/L	0.68	f
NE11	W1943	73-0487	08/10/09	9:23	Lead - Dissolved	µg/L	0.27	d
NE11	W1943	73-0666	09/17/09	11:20	Lead - Dissolved	µg/L	0.31	
NE11	W1943	73-0328	06/04/09	9:45	Magnesium - Dissolved	mg/L	5.0	
NE11	W1943	73-0372	07/06/09	9:10	Magnesium - Dissolved	mg/L	3.0	f
NE11	W1943	73-0487	08/10/09	9:23	Magnesium - Dissolved	mg/L	4.1	
NE11	W1943	73-0666	09/17/09	11:20	Magnesium - Dissolved	mg/L	3.3	
NE11	W1943	73-0328	06/04/09	9:45	Nickel - Dissolved	µg/L	0.87	
NE11	W1943	73-0372	07/06/09	9:10	Nickel - Dissolved	µg/L	1.1	f
NE11	W1943	73-0487	08/10/09	9:23	Nickel - Dissolved	µg/L	0.87	
NE11	W1943	73-0666	09/17/09	11:20	Nickel - Dissolved	µg/L	0.90	
NE11	W1943	73-0328	06/04/09	9:45	Selenium - Dissolved	µg/L	<2.6	
NE11	W1943	73-0372	07/06/09	9:10	Selenium - Dissolved	µg/L	<2.6	f
NE11	W1943	73-0487	08/10/09	9:23	Selenium - Dissolved	µg/L	<2.6	
NE11	W1943	73-0666	09/17/09	11:20	Selenium - Dissolved	µg/L	<2.6	
NE11	W1943	73-0328	06/04/09	9:45	Silver - Dissolved	µg/L	<0.13	
NE11	W1943	73-0372	07/06/09	9:10	Silver - Dissolved	µg/L	<0.13	f
NE11	W1943	73-0487	08/10/09	9:23	Silver - Dissolved	µg/L	##	b, d, j
NE11	W1943	73-0666	09/17/09	11:20	Silver - Dissolved	µg/L	<0.53	
NE11	W1943	73-0328	06/04/09	9:45	Thallium - Dissolved	µg/L	<0.16	
NE11	W1943	73-0372	07/06/09	9:10	Thallium - Dissolved	µg/L	<0.16	f
NE11	W1943	73-0487	08/10/09	9:23	Thallium - Dissolved	µg/L	<0.16	
NE11	W1943	73-0666	09/17/09	11:20	Thallium - Dissolved	µg/L	<0.16	
NE11	W1943	73-0328	06/04/09	9:45	Zinc - Dissolved	µg/L	3.3	
NE11	W1943	73-0372	07/06/09	9:10	Zinc - Dissolved	µg/L	4.9	f
NE11	W1943	73-0487	08/10/09	9:23	Zinc - Dissolved	µg/L	3.6	b
NE11	W1943	73-0666	09/17/09	11:20	Zinc - Dissolved	µg/L	2.0	
NE12	W1963	73-0202	04/28/09	9:31	*E. coli*	CFU/100mL	140	
NE12	W1963	73-0296	06/02/09	9:10	*E. coli*	CFU/100mL	150	
NE12	W1963	73-0379	07/07/09	9:30	*E. coli*	CFU/100mL	130	
NE12	W1963	73-0496	08/11/09	9:35	*E. coli*	CFU/100mL	220	
NE12	W1963	73-0540	08/27/09	10:00	*E. coli*	CFU/100mL	160	
NE12	W1963	73-0634	09/15/09	10:08	*E. coli*	CFU/100mL	160	
NE12	W1963	73-0202	04/28/09	9:31	Ammonia-N	mg/L	0.05	
NE12	W1963	73-0296	06/02/09	9:10	Ammonia-N	mg/L	0.06	
NE12	W1963	73-0379	07/07/09	9:30	Ammonia-N	mg/L	0.05	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NE12	W1963	73-0496	08/11/09	9:35	Ammonia-N	mg/L	0.04	
NE12	W1963	73-0634	09/15/09	10:08	Ammonia-N	mg/L	0.05	
NE12	W1963	73-0202	04/28/09	9:31	Total Nitrogen	mg/L	0.77	
NE12	W1963	73-0296	06/02/09	9:10	Total Nitrogen	mg/L	0.88	
NE12	W1963	73-0379	07/07/09	9:30	Total Nitrogen	mg/L	0.78	
NE12	W1963	73-0496	08/11/09	9:35	Total Nitrogen	mg/L	0.75	
NE12	W1963	73-0634	09/15/09	10:08	Total Nitrogen	mg/L	0.64	
NE12	W1963	73-0202	04/28/09	9:31	Total Phosphorus	mg/L	0.022	
NE12	W1963	73-0296	06/02/09	9:10	Total Phosphorus	mg/L	0.030	
NE12	W1963	73-0379	07/07/09	9:30	Total Phosphorus	mg/L	0.035	
NE12	W1963	73-0496	08/11/09	9:35	Total Phosphorus	mg/L	0.031	
NE12	W1963	73-0634	09/15/09	10:08	Total Phosphorus	mg/L	0.025	
NE12	W1963	73-0202	04/28/09	9:31	Turbidity	NTU	2.5	
NE12	W1963	73-0296	06/02/09	9:10	Turbidity	NTU	4.4	b
NE12	W1963	73-0379	07/07/09	9:30	Turbidity	NTU	3.9	
NE12	W1963	73-0496	08/11/09	9:35	Turbidity	NTU	3.4	
NE12	W1963	73-0634	09/15/09	10:08	Turbidity	NTU	3.2	
NE12	W1963	73-0202	04/28/09	9:31	True Color	PCU	41	
NE12	W1963	73-0296	06/02/09	9:10	True Color	PCU	46	
NE12	W1963	73-0379	07/07/09	9:30	True Color	PCU	67	
NE12	W1963	73-0496	08/11/09	9:35	True Color	PCU	57	
NE12	W1963	73-0634	09/15/09	10:08	True Color	PCU	44	
NE12	W1963	73-0330	06/04/09	10:41	Hardness	mg/L as CaCO3	51	
NE12	W1963	73-0374	07/06/09	10:08	Hardness	mg/L as CaCO3	40	f
NE12	W1963	73-0491	08/10/09	10:35	Hardness	mg/L as CaCO3	47	
NE12	W1963	73-0670	09/17/09	10:25	Hardness	mg/L as CaCO3	47	
NE12	W1963	73-0330	06/04/09	10:41	Aluminum - Dissolved	µg/L	<40	
NE12	W1963	73-0374	07/06/09	10:08	Aluminum - Dissolved	µg/L	<40	f
NE12	W1963	73-0491	08/10/09	10:35	Aluminum - Dissolved	µg/L	<40	
NE12	W1963	73-0670	09/17/09	10:25	Aluminum - Dissolved	µg/L	<50	
NE12	W1963	73-0330	06/04/09	10:41	Antimony - Dissolved	µg/L	0.22	
NE12	W1963	73-0374	07/06/09	10:08	Antimony - Dissolved	µg/L	0.24	f
NE12	W1963	73-0491	08/10/09	10:35	Antimony - Dissolved	µg/L	0.31	
NE12	W1963	73-0670	09/17/09	10:25	Antimony - Dissolved	µg/L	0.35	
NE12	W1963	73-0330	06/04/09	10:41	Arsenic - Dissolved	µg/L	<0.51	
NE12	W1963	73-0374	07/06/09	10:08	Arsenic - Dissolved	µg/L	0.52	f
NE12	W1963	73-0491	08/10/09	10:35	Arsenic - Dissolved	µg/L	0.56	
NE12	W1963	73-0670	09/17/09	10:25	Arsenic - Dissolved	µg/L	<1.0	
NE12	W1963	73-0330	06/04/09	10:41	Beryllium - Dissolved	µg/L	<0.20	
NE12	W1963	73-0374	07/06/09	10:08	Beryllium - Dissolved	µg/L	<0.20	f

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NE12	W1963	73-0491	08/10/09	10:35	Beryllium - Dissolved	µg/L	<0.20	
NE12	W1963	73-0670	09/17/09	10:25	Beryllium - Dissolved	µg/L	<0.20	
NE12	W1963	73-0330	06/04/09	10:41	Cadmium - Dissolved	µg/L	<0.13	
NE12	W1963	73-0374	07/06/09	10:08	Cadmium - Dissolved	µg/L	<0.13	f
NE12	W1963	73-0491	08/10/09	10:35	Cadmium - Dissolved	µg/L	<0.13	
NE12	W1963	73-0670	09/17/09	10:25	Cadmium - Dissolved	µg/L	<0.13	
NE12	W1963	73-0330	06/04/09	10:41	Calcium - Dissolved	mg/L	14	
NE12	W1963	73-0374	07/06/09	10:08	Calcium - Dissolved	mg/L	11	f
NE12	W1963	73-0491	08/10/09	10:35	Calcium - Dissolved	mg/L	13	
NE12	W1963	73-0670	09/17/09	10:25	Calcium - Dissolved	mg/L	13	
NE12	W1963	73-0330	06/04/09	10:41	Chromium - Dissolved	µg/L	0.45	
NE12	W1963	73-0374	07/06/09	10:08	Chromium - Dissolved	µg/L	0.48	f
NE12	W1963	73-0491	08/10/09	10:35	Chromium - Dissolved	µg/L	0.41	
NE12	W1963	73-0670	09/17/09	10:25	Chromium - Dissolved	µg/L	0.41	
NE12	W1963	73-0330	06/04/09	10:41	Copper - Dissolved	µg/L	##	d, j
NE12	W1963	73-0374	07/06/09	10:08	Copper - Dissolved	µg/L	1.4	f
NE12	W1963	73-0491	08/10/09	10:35	Copper - Dissolved	µg/L	1.7	j
NE12	W1963	73-0670	09/17/09	10:25	Copper - Dissolved	µg/L	28	j
NE12	W1963	73-0330	06/04/09	10:41	Lead - Dissolved	µg/L	0.81	
NE12	W1963	73-0374	07/06/09	10:08	Lead - Dissolved	µg/L	0.99	f
NE12	W1963	73-0491	08/10/09	10:35	Lead - Dissolved	µg/L	0.60	
NE12	W1963	73-0670	09/17/09	10:25	Lead - Dissolved	µg/L	0.53	
NE12	W1963	73-0330	06/04/09	10:41	Magnesium - Dissolved	mg/L	4.0	
NE12	W1963	73-0374	07/06/09	10:08	Magnesium - Dissolved	mg/L	2.9	f
NE12	W1963	73-0491	08/10/09	10:35	Magnesium - Dissolved	mg/L	3.5	
NE12	W1963	73-0670	09/17/09	10:25	Magnesium - Dissolved	mg/L	3.5	
NE12	W1963	73-0330	06/04/09	10:41	Nickel - Dissolved	µg/L	0.72	
NE12	W1963	73-0374	07/06/09	10:08	Nickel - Dissolved	µg/L	0.85	f
NE12	W1963	73-0491	08/10/09	10:35	Nickel - Dissolved	µg/L	0.70	
NE12	W1963	73-0670	09/17/09	10:25	Nickel - Dissolved	µg/L	0.67	
NE12	W1963	73-0330	06/04/09	10:41	Selenium - Dissolved	µg/L	<2.6	
NE12	W1963	73-0374	07/06/09	10:08	Selenium - Dissolved	µg/L	<2.6	f
NE12	W1963	73-0491	08/10/09	10:35	Selenium - Dissolved	µg/L	<2.6	
NE12	W1963	73-0670	09/17/09	10:25	Selenium - Dissolved	µg/L	<2.6	
NE12	W1963	73-0330	06/04/09	10:41	Silver - Dissolved	µg/L	<0.13	
NE12	W1963	73-0374	07/06/09	10:08	Silver - Dissolved	µg/L	<0.13	f
NE12	W1963	73-0491	08/10/09	10:35	Silver - Dissolved	µg/L	<0.13	b, d, j
NE12	W1963	73-0670	09/17/09	10:25	Silver - Dissolved	µg/L	<0.53	
NE12	W1963	73-0330	06/04/09	10:41	Thallium - Dissolved	µg/L	<0.16	
NE12	W1963	73-0374	07/06/09	10:08	Thallium - Dissolved	µg/L	<0.16	f

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NE12	W1963	73-0491	08/10/09	10:35	Thallium - Dissolved	µg/L	<0.16	
NE12	W1963	73-0670	09/17/09	10:25	Thallium - Dissolved	µg/L	<0.16	
NE12	W1963	73-0330	06/04/09	10:41	Zinc - Dissolved	µg/L	4.3	
NE12	W1963	73-0374	07/06/09	10:08	Zinc - Dissolved	µg/L	5.7	f
NE12	W1963	73-0491	08/10/09	10:35	Zinc - Dissolved	µg/L	3.0	b
NE12	W1963	73-0670	09/17/09	10:25	Zinc - Dissolved	µg/L	2.1	
NE12B	W0568	73-0213	04/28/09	11:49	*E. coli*	CFU/100mL	40	
NE12B	W0568	73-0307	06/02/09	11:16	*E. coli*	CFU/100mL	60	
NE12B	W0568	73-0388	07/07/09	12:03	*E. coli*	CFU/100mL	160	
NE12B	W0568	73-0505	08/11/09	11:52	*E. coli*	CFU/100mL	255	
NE12B	W0568	73-0549	08/27/09	12:25	*E. coli*	CFU/100mL	120	
NE12B	W0568	73-0643	09/15/09	12:46	*E. coli*	CFU/100mL	400	
NE12B	W0568	73-0213	04/28/09	11:49	Ammonia-N	mg/L	0.05	
NE12B	W0568	73-0307	06/02/09	11:16	Ammonia-N	mg/L	0.11	
NE12B	W0568	73-0388	07/07/09	12:03	Ammonia-N	mg/L	0.07	
NE12B	W0568	73-0505	08/11/09	11:52	Ammonia-N	mg/L	0.07	
NE12B	W0568	73-0643	09/15/09	12:46	Ammonia-N	mg/L	0.05	
NE12B	W0568	73-0213	04/28/09	11:49	Total Nitrogen	mg/L	0.83	
NE12B	W0568	73-0307	06/02/09	11:16	Total Nitrogen	mg/L	0.96	
NE12B	W0568	73-0388	07/07/09	12:03	Total Nitrogen	mg/L	0.95	
NE12B	W0568	73-0505	08/11/09	11:52	Total Nitrogen	mg/L	0.89	
NE12B	W0568	73-0643	09/15/09	12:46	Total Nitrogen	mg/L	0.72	
NE12B	W0568	73-0213	04/28/09	11:49	Total Phosphorus	mg/L	0.036	
NE12B	W0568	73-0307	06/02/09	11:16	Total Phosphorus	mg/L	0.041	
NE12B	W0568	73-0388	07/07/09	12:03	Total Phosphorus	mg/L	0.046	
NE12B	W0568	73-0505	08/11/09	11:52	Total Phosphorus	mg/L	0.046	
NE12B	W0568	73-0643	09/15/09	12:46	Total Phosphorus	mg/L	0.034	
NE12B	W0568	73-0213	04/28/09	11:49	Turbidity	NTU	3.4	
NE12B	W0568	73-0307	06/02/09	11:16	Turbidity	NTU	7.2	b
NE12B	W0568	73-0388	07/07/09	12:03	Turbidity	NTU	3.6	
NE12B	W0568	73-0505	08/11/09	11:52	Turbidity	NTU	5.9	
NE12B	W0568	73-0643	09/15/09	12:46	Turbidity	NTU	3.8	
NE12B	W0568	73-0213	04/28/09	11:49	True Color	PCU	57	
NE12B	W0568	73-0307	06/02/09	11:16	True Color	PCU	51	
NE12B	W0568	73-0388	07/07/09	12:03	True Color	PCU	115	
NE12B	W0568	73-0505	08/11/09	11:52	True Color	PCU	76	
NE12B	W0568	73-0643	09/15/09	12:46	True Color	PCU	52	
NE12B	W0568	73-0333	06/04/09	11:31	Hardness	mg/L as CaCO3	64	
NE12B	W0568	73-0375	07/06/09	10:34	Hardness	mg/L as CaCO3	42	f
NE12B	W0568	73-0492	08/10/09	11:06	Hardness	mg/L as CaCO3	59	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NE12B	W0568	73-0671	09/17/09	10:00	Hardness	mg/L as CaCO3	56	
NE12B	W0568	73-0333	06/04/09	11:31	Aluminum - Dissolved	µg/L	<40	
NE12B	W0568	73-0375	07/06/09	10:34	Aluminum - Dissolved	µg/L	47	f
NE12B	W0568	73-0492	08/10/09	11:06	Aluminum - Dissolved	µg/L	<40	
NE12B	W0568	73-0671	09/17/09	10:00	Aluminum - Dissolved	µg/L	<50	
NE12B	W0568	73-0333	06/04/09	11:31	Antimony - Dissolved	µg/L	0.26	
NE12B	W0568	73-0375	07/06/09	10:34	Antimony - Dissolved	µg/L	0.24	f
NE12B	W0568	73-0492	08/10/09	11:06	Antimony - Dissolved	µg/L	0.23	
NE12B	W0568	73-0671	09/17/09	10:00	Antimony - Dissolved	µg/L	0.29	
NE12B	W0568	73-0333	06/04/09	11:31	Arsenic - Dissolved	µg/L	<0.51	
NE12B	W0568	73-0375	07/06/09	10:34	Arsenic - Dissolved	µg/L	0.65	f
NE12B	W0568	73-0492	08/10/09	11:06	Arsenic - Dissolved	µg/L	0.73	
NE12B	W0568	73-0671	09/17/09	10:00	Arsenic - Dissolved	µg/L	<1.0	
NE12B	W0568	73-0333	06/04/09	11:31	Beryllium - Dissolved	µg/L	<0.20	
NE12B	W0568	73-0375	07/06/09	10:34	Beryllium - Dissolved	µg/L	<0.20	f
NE12B	W0568	73-0492	08/10/09	11:06	Beryllium - Dissolved	µg/L	<0.20	
NE12B	W0568	73-0671	09/17/09	10:00	Beryllium - Dissolved	µg/L	<0.20	
NE12B	W0568	73-0333	06/04/09	11:31	Cadmium - Dissolved	µg/L	<0.13	
NE12B	W0568	73-0375	07/06/09	10:34	Cadmium - Dissolved	µg/L	<0.13	f
NE12B	W0568	73-0492	08/10/09	11:06	Cadmium - Dissolved	µg/L	<0.13	
NE12B	W0568	73-0671	09/17/09	10:00	Cadmium - Dissolved	µg/L	<0.13	
NE12B	W0568	73-0333	06/04/09	11:31	Calcium - Dissolved	mg/L	18	
NE12B	W0568	73-0375	07/06/09	10:34	Calcium - Dissolved	mg/L	12	f
NE12B	W0568	73-0492	08/10/09	11:06	Calcium - Dissolved	mg/L	17	
NE12B	W0568	73-0671	09/17/09	10:00	Calcium - Dissolved	mg/L	16	
NE12B	W0568	73-0333	06/04/09	11:31	Chromium - Dissolved	µg/L	0.55	
NE12B	W0568	73-0375	07/06/09	10:34	Chromium - Dissolved	µg/L	0.74	f
NE12B	W0568	73-0492	08/10/09	11:06	Chromium - Dissolved	µg/L	0.56	
NE12B	W0568	73-0671	09/17/09	10:00	Chromium - Dissolved	µg/L	0.52	
NE12B	W0568	73-0333	06/04/09	11:31	Copper - Dissolved	µg/L	1.5	d, j
NE12B	W0568	73-0375	07/06/09	10:34	Copper - Dissolved	µg/L	2.5	f
NE12B	W0568	73-0492	08/10/09	11:06	Copper - Dissolved	µg/L	3.9	j
NE12B	W0568	73-0671	09/17/09	10:00	Copper - Dissolved	µg/L	2.2	j
NE12B	W0568	73-0333	06/04/09	11:31	Lead - Dissolved	µg/L	1.1	
NE12B	W0568	73-0375	07/06/09	10:34	Lead - Dissolved	µg/L	1.2	f
NE12B	W0568	73-0492	08/10/09	11:06	Lead - Dissolved	µg/L	1.4	
NE12B	W0568	73-0671	09/17/09	10:00	Lead - Dissolved	µg/L	0.79	
NE12B	W0568	73-0333	06/04/09	11:31	Magnesium - Dissolved	mg/L	4.8	
NE12B	W0568	73-0375	07/06/09	10:34	Magnesium - Dissolved	mg/L	3.0	f
NE12B	W0568	73-0492	08/10/09	11:06	Magnesium - Dissolved	mg/L	4.3	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NE12B	W0568	73-0671	09/17/09	10:00	Magnesium - Dissolved	mg/L	4.2	
NE12B	W0568	73-0333	06/04/09	11:31	Nickel - Dissolved	µg/L	0.93	
NE12B	W0568	73-0375	07/06/09	10:34	Nickel - Dissolved	µg/L	1.1	f
NE12B	W0568	73-0492	08/10/09	11:06	Nickel - Dissolved	µg/L	0.93	
NE12B	W0568	73-0671	09/17/09	10:00	Nickel - Dissolved	µg/L	0.90	
NE12B	W0568	73-0333	06/04/09	11:31	Selenium - Dissolved	µg/L	<2.6	
NE12B	W0568	73-0375	07/06/09	10:34	Selenium - Dissolved	µg/L	<2.6	f
NE12B	W0568	73-0492	08/10/09	11:06	Selenium - Dissolved	µg/L	<2.6	
NE12B	W0568	73-0671	09/17/09	10:00	Selenium - Dissolved	µg/L	<2.6	
NE12B	W0568	73-0333	06/04/09	11:31	Silver - Dissolved	µg/L	<0.13	
NE12B	W0568	73-0375	07/06/09	10:34	Silver - Dissolved	µg/L	0.15	f
NE12B	W0568	73-0492	08/10/09	11:06	Silver - Dissolved	µg/L	<0.13	b, d, j
NE12B	W0568	73-0671	09/17/09	10:00	Silver - Dissolved	µg/L	<0.53	
NE12B	W0568	73-0333	06/04/09	11:31	Thallium - Dissolved	µg/L	<0.16	
NE12B	W0568	73-0375	07/06/09	10:34	Thallium - Dissolved	µg/L	<0.16	f
NE12B	W0568	73-0492	08/10/09	11:06	Thallium - Dissolved	µg/L	<0.16	
NE12B	W0568	73-0671	09/17/09	10:00	Thallium - Dissolved	µg/L	<0.16	
NE12B	W0568	73-0333	06/04/09	11:31	Zinc - Dissolved	µg/L	5.3	
NE12B	W0568	73-0375	07/06/09	10:34	Zinc - Dissolved	µg/L	9.8	f
NE12B	W0568	73-0492	08/10/09	11:06	Zinc - Dissolved	µg/L	4.1	b
NE12B	W0568	73-0671	09/17/09	10:00	Zinc - Dissolved	µg/L	4.8	
NER185	W1935	73-0233	04/28/09	12:16	*E. coli*	CFU/100mL	40	
NER185	W1935	73-0327	06/02/09	12:20	*E. coli*	CFU/100mL	190	
NER185	W1935	73-0410	07/07/09	12:29	*E. coli*	CFU/100mL	1600	
NER185	W1935	73-0527	08/11/09	12:34	*E. coli*	CFU/100mL	200	
NER185	W1935	73-0569	08/27/09	12:48	*E. coli*	CFU/100mL	##	b, r
NER185	W1935	73-0663	09/15/09	13:08	*E. coli*	CFU/100mL	360	
NER185	W1935	73-0233	04/28/09	12:16	Ammonia-N	mg/L	0.03	
NER185	W1935	73-0327	06/02/09	12:20	Ammonia-N	mg/L	0.09	
NER185	W1935	73-0410	07/07/09	12:29	Ammonia-N	mg/L	0.13	
NER185	W1935	73-0527	08/11/09	12:34	Ammonia-N	mg/L	0.05	
NER185	W1935	73-0663	09/15/09	13:08	Ammonia-N	mg/L	0.04	
NER185	W1935	73-0233	04/28/09	12:16	Total Nitrogen	mg/L	0.78	
NER185	W1935	73-0327	06/02/09	12:20	Total Nitrogen	mg/L	0.96	
NER185	W1935	73-0410	07/07/09	12:29	Total Nitrogen	mg/L	1.2	
NER185	W1935	73-0527	08/11/09	12:34	Total Nitrogen	mg/L	0.89	
NER185	W1935	73-0663	09/15/09	13:08	Total Nitrogen	mg/L	0.70	
NER185	W1935	73-0233	04/28/09	12:16	Total Phosphorus	mg/L	0.033	
NER185	W1935	73-0327	06/02/09	12:20	Total Phosphorus	mg/L	0.036	
NER185	W1935	73-0410	07/07/09	12:29	Total Phosphorus	mg/L	0.078	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NER185	W1935	73-0527	08/11/09	12:34	Total Phosphorus	mg/L	0.039	
NER185	W1935	73-0663	09/15/09	13:08	Total Phosphorus	mg/L	0.032	
NER185	W1935	73-0233	04/28/09	12:16	Turbidity	NTU	2.5	
NER185	W1935	73-0327	06/02/09	12:20	Turbidity	NTU	3.7	b
NER185	W1935	73-0410	07/07/09	12:29	Turbidity	NTU	10.5	
NER185	W1935	73-0527	08/11/09	12:34	Turbidity	NTU	3.5	
NER185	W1935	73-0663	09/15/09	13:08	Turbidity	NTU	2.7	
NER185	W1935	73-0233	04/28/09	12:16	True Color	PCU	57	
NER185	W1935	73-0327	06/02/09	12:20	True Color	PCU	60	
NER185	W1935	73-0410	07/07/09	12:29	True Color	PCU	105	
NER185	W1935	73-0527	08/11/09	12:34	True Color	PCU	73	
NER185	W1935	73-0663	09/15/09	13:08	True Color	PCU	50	
NER185	W1935	73-0335	06/04/09	12:11	Hardness	mg/L as CaCO3	67	
NER185	W1935	73-0376	07/06/09	11:09	Hardness	mg/L as CaCO3	43	f
NER185	W1935	73-0493	08/10/09	11:42	Hardness	mg/L as CaCO3	62	
NER185	W1935	73-0672	09/17/09	9:25	Hardness	mg/L as CaCO3	57	
NER185	W1935	73-0335	06/04/09	12:11	Aluminum - Dissolved	µg/L	<40	
NER185	W1935	73-0376	07/06/09	11:09	Aluminum - Dissolved	µg/L	<40	f
NER185	W1935	73-0493	08/10/09	11:42	Aluminum - Dissolved	µg/L	<40	
NER185	W1935	73-0672	09/17/09	9:25	Aluminum - Dissolved	µg/L	<50	
NER185	W1935	73-0335	06/04/09	12:11	Antimony - Dissolved	µg/L	0.19	
NER185	W1935	73-0376	07/06/09	11:09	Antimony - Dissolved	µg/L	0.19	f
NER185	W1935	73-0493	08/10/09	11:42	Antimony - Dissolved	µg/L	0.27	
NER185	W1935	73-0672	09/17/09	9:25	Antimony - Dissolved	µg/L	0.29	
NER185	W1935	73-0335	06/04/09	12:11	Arsenic - Dissolved	µg/L	0.57	
NER185	W1935	73-0376	07/06/09	11:09	Arsenic - Dissolved	µg/L	0.70	f
NER185	W1935	73-0493	08/10/09	11:42	Arsenic - Dissolved	µg/L	0.74	
NER185	W1935	73-0672	09/17/09	9:25	Arsenic - Dissolved	µg/L	<1.0	
NER185	W1935	73-0335	06/04/09	12:11	Beryllium - Dissolved	µg/L	<0.20	
NER185	W1935	73-0376	07/06/09	11:09	Beryllium - Dissolved	µg/L	<0.20	f
NER185	W1935	73-0493	08/10/09	11:42	Beryllium - Dissolved	µg/L	<0.20	
NER185	W1935	73-0672	09/17/09	9:25	Beryllium - Dissolved	µg/L	<0.20	
NER185	W1935	73-0335	06/04/09	12:11	Cadmium - Dissolved	µg/L	<0.13	
NER185	W1935	73-0376	07/06/09	11:09	Cadmium - Dissolved	µg/L	<0.13	f
NER185	W1935	73-0493	08/10/09	11:42	Cadmium - Dissolved	µg/L	<0.13	
NER185	W1935	73-0672	09/17/09	9:25	Cadmium - Dissolved	µg/L	<0.13	
NER185	W1935	73-0335	06/04/09	12:11	Calcium - Dissolved	mg/L	19	
NER185	W1935	73-0376	07/06/09	11:09	Calcium - Dissolved	mg/L	12	f
NER185	W1935	73-0493	08/10/09	11:42	Calcium - Dissolved	mg/L	18	
NER185	W1935	73-0672	09/17/09	9:25	Calcium - Dissolved	mg/L	16	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NER185	W1935	73-0335	06/04/09	12:11	Chromium - Dissolved	µg/L	0.59	
NER185	W1935	73-0376	07/06/09	11:09	Chromium - Dissolved	µg/L	0.70	f
NER185	W1935	73-0493	08/10/09	11:42	Chromium - Dissolved	µg/L	0.55	
NER185	W1935	73-0672	09/17/09	9:25	Chromium - Dissolved	µg/L	0.62	
NER185	W1935	73-0335	06/04/09	12:11	Copper - Dissolved	µg/L	1.5	d, j
NER185	W1935	73-0376	07/06/09	11:09	Copper - Dissolved	µg/L	2.3	f
NER185	W1935	73-0493	08/10/09	11:42	Copper - Dissolved	µg/L	2.5	j
NER185	W1935	73-0672	09/17/09	9:25	Copper - Dissolved	µg/L	2.8	j
NER185	W1935	73-0335	06/04/09	12:11	Lead - Dissolved	µg/L	1.4	
NER185	W1935	73-0376	07/06/09	11:09	Lead - Dissolved	µg/L	1.3	f
NER185	W1935	73-0493	08/10/09	11:42	Lead - Dissolved	µg/L	1.3	
NER185	W1935	73-0672	09/17/09	9:25	Lead - Dissolved	µg/L	0.80	
NER185	W1935	73-0335	06/04/09	12:11	Magnesium - Dissolved	mg/L	5.0	
NER185	W1935	73-0376	07/06/09	11:09	Magnesium - Dissolved	mg/L	3.0	f
NER185	W1935	73-0493	08/10/09	11:42	Magnesium - Dissolved	mg/L	4.5	
NER185	W1935	73-0672	09/17/09	9:25	Magnesium - Dissolved	mg/L	4.2	
NER185	W1935	73-0335	06/04/09	12:11	Nickel - Dissolved	µg/L	0.94	
NER185	W1935	73-0376	07/06/09	11:09	Nickel - Dissolved	µg/L	1.1	f
NER185	W1935	73-0493	08/10/09	11:42	Nickel - Dissolved	µg/L	0.98	
NER185	W1935	73-0672	09/17/09	9:25	Nickel - Dissolved	µg/L	0.96	
NER185	W1935	73-0335	06/04/09	12:11	Selenium - Dissolved	µg/L	<2.6	
NER185	W1935	73-0376	07/06/09	11:09	Selenium - Dissolved	µg/L	<2.6	f
NER185	W1935	73-0493	08/10/09	11:42	Selenium - Dissolved	µg/L	<2.6	
NER185	W1935	73-0672	09/17/09	9:25	Selenium - Dissolved	µg/L	<2.6	
NER185	W1935	73-0335	06/04/09	12:11	Silver - Dissolved	µg/L	<0.13	
NER185	W1935	73-0376	07/06/09	11:09	Silver - Dissolved	µg/L	<0.13	f
NER185	W1935	73-0493	08/10/09	11:42	Silver - Dissolved	µg/L	<0.13	b, d, j
NER185	W1935	73-0672	09/17/09	9:25	Silver - Dissolved	µg/L	<0.53	
NER185	W1935	73-0335	06/04/09	12:11	Thallium - Dissolved	µg/L	<0.16	
NER185	W1935	73-0376	07/06/09	11:09	Thallium - Dissolved	µg/L	<0.16	f
NER185	W1935	73-0493	08/10/09	11:42	Thallium - Dissolved	µg/L	<0.16	
NER185	W1935	73-0672	09/17/09	9:25	Thallium - Dissolved	µg/L	<0.16	
NER185	W1935	73-0335	06/04/09	12:11	Zinc - Dissolved	µg/L	5.3	
NER185	W1935	73-0376	07/06/09	11:09	Zinc - Dissolved	µg/L	7.4	f
NER185	W1935	73-0493	08/10/09	11:42	Zinc - Dissolved	µg/L	3.7	b
NER185	W1935	73-0672	09/17/09	9:25	Zinc - Dissolved	µg/L	5.1	
NR01	W1933	73-0201	04/28/09	9:09	*E. coli*	CFU/100mL	70	
NR01	W1933	73-0295	06/02/09	8:56	*E. coli*	CFU/100mL	290	
NR01	W1933	73-0378	07/07/09	9:10	*E. coli*	CFU/100mL	240	
NR01	W1933	73-0495	08/11/09	9:12	*E. coli*	CFU/100mL	1400	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NR01	W1933	73-0539	08/27/09	9:42	*E. coli*	CFU/100mL	210	
NR01	W1933	73-0633	09/15/09	9:48	*E. coli*	CFU/100mL	150	
NR01	W1933	73-0201	04/28/09	9:09	Ammonia-N	mg/L	0.03	
NR01	W1933	73-0295	06/02/09	8:56	Ammonia-N	mg/L	0.05	
NR01	W1933	73-0378	07/07/09	9:10	Ammonia-N	mg/L	0.04	
NR01	W1933	73-0495	08/11/09	9:12	Ammonia-N	mg/L	0.02	
NR01	W1933	73-0633	09/15/09	9:48	Ammonia-N	mg/L	0.04	
NR01	W1933	73-0201	04/28/09	9:09	Total Nitrogen	mg/L	0.67	
NR01	W1933	73-0295	06/02/09	8:56	Total Nitrogen	mg/L	0.86	
NR01	W1933	73-0378	07/07/09	9:10	Total Nitrogen	mg/L	0.94	
NR01	W1933	73-0495	08/11/09	9:12	Total Nitrogen	mg/L	0.76	
NR01	W1933	73-0633	09/15/09	9:48	Total Nitrogen	mg/L	0.61	
NR01	W1933	73-0201	04/28/09	9:09	Total Phosphorus	mg/L	0.024	
NR01	W1933	73-0295	06/02/09	8:56	Total Phosphorus	mg/L	0.031	
NR01	W1933	73-0378	07/07/09	9:10	Total Phosphorus	mg/L	0.044	
NR01	W1933	73-0495	08/11/09	9:12	Total Phosphorus	mg/L	0.036	
NR01	W1933	73-0633	09/15/09	9:48	Total Phosphorus	mg/L	0.028	
NR01	W1933	73-0201	04/28/09	9:09	Turbidity	NTU	2.5	
NR01	W1933	73-0295	06/02/09	8:56	Turbidity	NTU	2.4	b
NR01	W1933	73-0378	07/07/09	9:10	Turbidity	NTU	3.5	
NR01	W1933	73-0495	08/11/09	9:12	Turbidity	NTU	2.6	
NR01	W1933	73-0633	09/15/09	9:48	Turbidity	NTU	2.2	
NR01	W1933	73-0201	04/28/09	9:09	True Color	PCU	49	
NR01	W1933	73-0295	06/02/09	8:56	True Color	PCU	41	
NR01	W1933	73-0378	07/07/09	9:10	True Color	PCU	95	
NR01	W1933	73-0495	08/11/09	9:12	True Color	PCU	67	
NR01	W1933	73-0633	09/15/09	9:48	True Color	PCU	44	
NR01	W1933	73-0329	06/04/09	10:18	Hardness	mg/L as CaCO3	61	
NR01	W1933	73-0373	07/06/09	9:46	Hardness	mg/L as CaCO3	50	f
NR01	W1933	73-0490	08/10/09	10:12	Hardness	mg/L as CaCO3	58	
NR01	W1933	73-0669	09/17/09	10:55	Hardness	mg/L as CaCO3	53	
NR01	W1933	73-0329	06/04/09	10:18	Aluminum - Dissolved	µg/L	<40	
NR01	W1933	73-0373	07/06/09	9:46	Aluminum - Dissolved	µg/L	<40	f
NR01	W1933	73-0490	08/10/09	10:12	Aluminum - Dissolved	µg/L	<40	
NR01	W1933	73-0669	09/17/09	10:55	Aluminum - Dissolved	µg/L	<50	
NR01	W1933	73-0329	06/04/09	10:18	Antimony - Dissolved	µg/L	<0.15	
NR01	W1933	73-0373	07/06/09	9:46	Antimony - Dissolved	µg/L	0.16	f
NR01	W1933	73-0490	08/10/09	10:12	Antimony - Dissolved	µg/L	0.24	
NR01	W1933	73-0669	09/17/09	10:55	Antimony - Dissolved	µg/L	0.18	
NR01	W1933	73-0329	06/04/09	10:18	Arsenic - Dissolved	µg/L	<0.51	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NR01	W1933	73-0373	07/06/09	9:46	Arsenic - Dissolved	µg/L	0.53	f
NR01	W1933	73-0490	08/10/09	10:12	Arsenic - Dissolved	µg/L	0.59	
NR01	W1933	73-0669	09/17/09	10:55	Arsenic - Dissolved	µg/L	<1.0	
NR01	W1933	73-0329	06/04/09	10:18	Beryllium - Dissolved	µg/L	<0.20	
NR01	W1933	73-0373	07/06/09	9:46	Beryllium - Dissolved	µg/L	<0.20	f
NR01	W1933	73-0490	08/10/09	10:12	Beryllium - Dissolved	µg/L	<0.20	
NR01	W1933	73-0669	09/17/09	10:55	Beryllium - Dissolved	µg/L	<0.20	
NR01	W1933	73-0329	06/04/09	10:18	Cadmium - Dissolved	µg/L	<0.13	
NR01	W1933	73-0373	07/06/09	9:46	Cadmium - Dissolved	µg/L	<0.13	f
NR01	W1933	73-0490	08/10/09	10:12	Cadmium - Dissolved	µg/L	<0.13	
NR01	W1933	73-0669	09/17/09	10:55	Cadmium - Dissolved	µg/L	<0.13	
NR01	W1933	73-0329	06/04/09	10:18	Calcium - Dissolved	mg/L	17	
NR01	W1933	73-0373	07/06/09	9:46	Calcium - Dissolved	mg/L	14	f
NR01	W1933	73-0490	08/10/09	10:12	Calcium - Dissolved	mg/L	17	
NR01	W1933	73-0669	09/17/09	10:55	Calcium - Dissolved	mg/L	15	
NR01	W1933	73-0329	06/04/09	10:18	Chromium - Dissolved	µg/L	0.30	
NR01	W1933	73-0373	07/06/09	9:46	Chromium - Dissolved	µg/L	0.41	f
NR01	W1933	73-0490	08/10/09	10:12	Chromium - Dissolved	µg/L	0.28	
NR01	W1933	73-0669	09/17/09	10:55	Chromium - Dissolved	µg/L	0.26	
NR01	W1933	73-0329	06/04/09	10:18	Copper - Dissolved	µg/L	1.7	d, j
NR01	W1933	73-0373	07/06/09	9:46	Copper - Dissolved	µg/L	2.0	f
NR01	W1933	73-0490	08/10/09	10:12	Copper - Dissolved	µg/L	5.3	j
NR01	W1933	73-0669	09/17/09	10:55	Copper - Dissolved	µg/L	2.6	j
NR01	W1933	73-0329	06/04/09	10:18	Lead - Dissolved	µg/L	0.70	
NR01	W1933	73-0373	07/06/09	9:46	Lead - Dissolved	µg/L	1.1	f
NR01	W1933	73-0490	08/10/09	10:12	Lead - Dissolved	µg/L	0.51	
NR01	W1933	73-0669	09/17/09	10:55	Lead - Dissolved	µg/L	0.62	
NR01	W1933	73-0329	06/04/09	10:18	Magnesium - Dissolved	mg/L	4.6	
NR01	W1933	73-0373	07/06/09	9:46	Magnesium - Dissolved	mg/L	3.4	f
NR01	W1933	73-0490	08/10/09	10:12	Magnesium - Dissolved	mg/L	4.2	
NR01	W1933	73-0669	09/17/09	10:55	Magnesium - Dissolved	mg/L	3.8	
NR01	W1933	73-0329	06/04/09	10:18	Nickel - Dissolved	µg/L	0.84	
NR01	W1933	73-0373	07/06/09	9:46	Nickel - Dissolved	µg/L	1.2	f
NR01	W1933	73-0490	08/10/09	10:12	Nickel - Dissolved	µg/L	0.93	
NR01	W1933	73-0669	09/17/09	10:55	Nickel - Dissolved	µg/L	0.97	
NR01	W1933	73-0329	06/04/09	10:18	Selenium - Dissolved	µg/L	<2.6	
NR01	W1933	73-0373	07/06/09	9:46	Selenium - Dissolved	µg/L	<2.6	f
NR01	W1933	73-0490	08/10/09	10:12	Selenium - Dissolved	µg/L	<2.6	
NR01	W1933	73-0669	09/17/09	10:55	Selenium - Dissolved	µg/L	<2.6	
NR01	W1933	73-0329	06/04/09	10:18	Silver - Dissolved	µg/L	0.13	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NR01	W1933	73-0373	07/06/09	9:46	Silver - Dissolved	µg/L	<0.13	f
NR01	W1933	73-0490	08/10/09	10:12	Silver - Dissolved	µg/L	<0.13	b, d, j
NR01	W1933	73-0669	09/17/09	10:55	Silver - Dissolved	µg/L	<0.53	
NR01	W1933	73-0329	06/04/09	10:18	Thallium - Dissolved	µg/L	<0.16	
NR01	W1933	73-0373	07/06/09	9:46	Thallium - Dissolved	µg/L	<0.16	f
NR01	W1933	73-0490	08/10/09	10:12	Thallium - Dissolved	µg/L	<0.16	
NR01	W1933	73-0669	09/17/09	10:55	Thallium - Dissolved	µg/L	<0.16	
NR01	W1933	73-0329	06/04/09	10:18	Zinc - Dissolved	µg/L	3.8	
NR01	W1933	73-0373	07/06/09	9:46	Zinc - Dissolved	µg/L	7.3	f
NR01	W1933	73-0490	08/10/09	10:12	Zinc - Dissolved	µg/L	3.7	b
NR01	W1933	73-0669	09/17/09	10:55	Zinc - Dissolved	µg/L	3.8	
NR03	W1934	73-0232	04/28/09	12:01	*E. coli*	CFU/100mL	30	
NR03	W1934	73-0326	06/02/09	12:00	*E. coli*	CFU/100mL	420	
NR03	W1934	73-0409	07/07/09	12:10	*E. coli*	CFU/100mL	2500	
NR03	W1934	73-0526	08/11/09	12:15	*E. coli*	CFU/100mL	900	
NR03	W1934	73-0568	08/27/09	12:30	*E. coli*	CFU/100mL	##	b
NR03	W1934	73-0662	09/15/09	12:49	*E. coli*	CFU/100mL	900	
NR03	W1934	73-0232	04/28/09	12:01	Ammonia-N	mg/L	0.04	
NR03	W1934	73-0326	06/02/09	12:00	Ammonia-N	mg/L	0.10	
NR03	W1934	73-0409	07/07/09	12:10	Ammonia-N	mg/L	0.09	
NR03	W1934	73-0526	08/11/09	12:15	Ammonia-N	mg/L	0.08	
NR03	W1934	73-0662	09/15/09	12:49	Ammonia-N	mg/L	0.05	
NR03	W1934	73-0232	04/28/09	12:01	Total Nitrogen	mg/L	0.82	
NR03	W1934	73-0326	06/02/09	12:00	Total Nitrogen	mg/L	0.95	
NR03	W1934	73-0409	07/07/09	12:10	Total Nitrogen	mg/L	1.0	
NR03	W1934	73-0526	08/11/09	12:15	Total Nitrogen	mg/L	0.92	
NR03	W1934	73-0662	09/15/09	12:49	Total Nitrogen	mg/L	0.74	
NR03	W1934	73-0232	04/28/09	12:01	Total Phosphorus	mg/L	0.032	
NR03	W1934	73-0326	06/02/09	12:00	Total Phosphorus	mg/L	0.039	
NR03	W1934	73-0409	07/07/09	12:10	Total Phosphorus	mg/L	0.058	
NR03	W1934	73-0526	08/11/09	12:15	Total Phosphorus	mg/L	0.046	
NR03	W1934	73-0662	09/15/09	12:49	Total Phosphorus	mg/L	0.038	
NR03	W1934	73-0232	04/28/09	12:01	Turbidity	NTU	3.4	
NR03	W1934	73-0326	06/02/09	12:00	Turbidity	NTU	5.4	b
NR03	W1934	73-0409	07/07/09	12:10	Turbidity	NTU	4.5	
NR03	W1934	73-0526	08/11/09	12:15	Turbidity	NTU	5.1	
NR03	W1934	73-0662	09/15/09	12:49	Turbidity	NTU	4.5	
NR03	W1934	73-0232	04/28/09	12:01	True Color	PCU	55	
NR03	W1934	73-0326	06/02/09	12:00	True Color	PCU	56	
NR03	W1934	73-0409	07/07/09	12:10	True Color	PCU	115	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
NR03	W1934	73-0526	08/11/09	12:15	True Color	PCU	69	
NR03	W1934	73-0662	09/15/09	12:49	True Color	PCU	54	
PC01	W1948	73-0211	04/28/09	11:24	*E. coli*	CFU/100mL	10	
PC01	W1948	73-0305	06/02/09	10:53	*E. coli*	CFU/100mL	70	
PC01	W1948	73-0386	07/07/09	11:35	*E. coli*	CFU/100mL	120	
PC01	W1948	73-0503	08/11/09	11:22	*E. coli*	CFU/100mL	220	
PC01	W1948	73-0547	08/27/09	12:01	*E. coli*	CFU/100mL	130	
PC01	W1948	73-0641	09/15/09	12:18	*E. coli*	CFU/100mL	110	
PC01	W1948	73-0211	04/28/09	11:24	Ammonia-N	mg/L	<0.02	
PC01	W1948	73-0305	06/02/09	10:53	Ammonia-N	mg/L	0.04	
PC01	W1948	73-0386	07/07/09	11:35	Ammonia-N	mg/L	0.03	
PC01	W1948	73-0503	08/11/09	11:22	Ammonia-N	mg/L	0.02	
PC01	W1948	73-0641	09/15/09	12:18	Ammonia-N	mg/L	0.03	
PC01	W1948	73-0211	04/28/09	11:24	Total Nitrogen	mg/L	0.77	
PC01	W1948	73-0305	06/02/09	10:53	Total Nitrogen	mg/L	0.87	
PC01	W1948	73-0386	07/07/09	11:35	Total Nitrogen	mg/L	0.92	
PC01	W1948	73-0503	08/11/09	11:22	Total Nitrogen	mg/L	0.79	
PC01	W1948	73-0641	09/15/09	12:18	Total Nitrogen	mg/L	0.81	
PC01	W1948	73-0211	04/28/09	11:24	Total Phosphorus	mg/L	0.028	
PC01	W1948	73-0305	06/02/09	10:53	Total Phosphorus	mg/L	0.038	
PC01	W1948	73-0386	07/07/09	11:35	Total Phosphorus	mg/L	0.059	
PC01	W1948	73-0503	08/11/09	11:22	Total Phosphorus	mg/L	0.031	
PC01	W1948	73-0641	09/15/09	12:18	Total Phosphorus	mg/L	0.032	
PC01	W1948	73-0211	04/28/09	11:24	Turbidity	NTU	2.3	
PC01	W1948	73-0305	06/02/09	10:53	Turbidity	NTU	3.7	b
PC01	W1948	73-0386	07/07/09	11:35	Turbidity	NTU	5.9	
PC01	W1948	73-0503	08/11/09	11:22	Turbidity	NTU	3.2	
PC01	W1948	73-0641	09/15/09	12:18	Turbidity	NTU	3.4	
PC01	W1948	73-0211	04/28/09	11:24	True Color	PCU	34	
PC01	W1948	73-0305	06/02/09	10:53	True Color	PCU	38	
PC01	W1948	73-0386	07/07/09	11:35	True Color	PCU	67	
PC01	W1948	73-0503	08/11/09	11:22	True Color	PCU	33	
PC01	W1948	73-0641	09/15/09	12:18	True Color	PCU	32	
PF01	W1947	73-0230	04/28/09	11:09	*E. coli*	CFU/100mL	60	
PF01	W1947	73-0324	06/02/09	11:17	*E. coli*	CFU/100mL	180	
PF01	W1947	73-0407	07/07/09	11:29	*E. coli*	CFU/100mL	2800	
PF01	W1947	73-0524	08/11/09	11:33	*E. coli*	CFU/100mL	>8000	
PF01	W1947	73-0566	08/27/09	11:43	*E. coli*	CFU/100mL	##	b
PF01	W1947	73-0660	09/15/09	12:11	*E. coli*	CFU/100mL	1300	
POB040	W0566	73-0212	04/28/09	11:38	*E. coli*	CFU/100mL	40	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
POB040	W0566	73-0306	06/02/09	11:06	*E. coli*	CFU/100mL	330	
POB040	W0566	73-0387	07/07/09	11:52	*E. coli*	CFU/100mL	310	
POB040	W0566	73-0504	08/11/09	11:33	*E. coli*	CFU/100mL	360	
POB040	W0566	73-0548	08/27/09	12:15	*E. coli*	CFU/100mL	70	
POB040	W0566	73-0642	09/15/09	12:33	*E. coli*	CFU/100mL	150	
POB040	W0566	73-0212	04/28/09	11:38	Ammonia-N	mg/L	0.03	
POB040	W0566	73-0306	06/02/09	11:06	Ammonia-N	mg/L	0.06	
POB040	W0566	73-0387	07/07/09	11:52	Ammonia-N	mg/L	0.07	
POB040	W0566	73-0504	08/11/09	11:33	Ammonia-N	mg/L	0.03	
POB040	W0566	73-0642	09/15/09	12:33	Ammonia-N	mg/L	0.04	
POB040	W0566	73-0212	04/28/09	11:38	Total Nitrogen	mg/L	1.0	
POB040	W0566	73-0306	06/02/09	11:06	Total Nitrogen	mg/L	1.2	
POB040	W0566	73-0387	07/07/09	11:52	Total Nitrogen	mg/L	1.2	
POB040	W0566	73-0504	08/11/09	11:33	Total Nitrogen	mg/L	1.1	
POB040	W0566	73-0642	09/15/09	12:33	Total Nitrogen	mg/L	1.3	
POB040	W0566	73-0212	04/28/09	11:38	Total Phosphorus	mg/L	0.034	
POB040	W0566	73-0306	06/02/09	11:06	Total Phosphorus	mg/L	0.036	
POB040	W0566	73-0387	07/07/09	11:52	Total Phosphorus	mg/L	0.061	
POB040	W0566	73-0504	08/11/09	11:33	Total Phosphorus	mg/L	0.039	
POB040	W0566	73-0642	09/15/09	12:33	Total Phosphorus	mg/L	0.036	
POB040	W0566	73-0212	04/28/09	11:38	Turbidity	NTU	1.7	
POB040	W0566	73-0306	06/02/09	11:06	Turbidity	NTU	2.3	b
POB040	W0566	73-0387	07/07/09	11:52	Turbidity	NTU	3.8	
POB040	W0566	73-0504	08/11/09	11:33	Turbidity	NTU	2.0	
POB040	W0566	73-0642	09/15/09	12:33	Turbidity	NTU	1.6	
POB040	W0566	73-0212	04/28/09	11:38	True Color	PCU	52	
POB040	W0566	73-0306	06/02/09	11:06	True Color	PCU	49	
POB040	W0566	73-0387	07/07/09	11:52	True Color	PCU	110	
POB040	W0566	73-0504	08/11/09	11:33	True Color	PCU	53	
POB040	W0566	73-0642	09/15/09	12:33	True Color	PCU	82	
PQ01	W0559	73-0205	04/28/09	9:53	*E. coli*	CFU/100mL	10	
PQ01	W0559	73-0299	06/02/09	9:34	*E. coli*	CFU/100mL	20	
PQ01	W0559	73-0380	07/07/09	9:45	*E. coli*	CFU/100mL	110	
PQ01	W0559	73-0497	08/11/09	9:50	*E. coli*	CFU/100mL	160	
PQ01	W0559	73-0541	08/27/09	10:14	*E. coli*	CFU/100mL	170	
PQ01	W0559	73-0635	09/15/09	10:25	*E. coli*	CFU/100mL	160	
PQ01	W0559	73-0205	04/28/09	9:53	Ammonia-N	mg/L	0.02	
PQ01	W0559	73-0299	06/02/09	9:34	Ammonia-N	mg/L	0.04	
PQ01	W0559	73-0380	07/07/09	9:45	Ammonia-N	mg/L	0.03	
PQ01	W0559	73-0497	08/11/09	9:50	Ammonia-N	mg/L	0.04	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
PQ01	W0559	73-0635	09/15/09	10:25	Ammonia-N	mg/L	0.03	
PQ01	W0559	73-0205	04/28/09	9:53	Total Nitrogen	mg/L	0.37	
PQ01	W0559	73-0299	06/02/09	9:34	Total Nitrogen	mg/L	0.49	
PQ01	W0559	73-0380	07/07/09	9:45	Total Nitrogen	mg/L	0.58	
PQ01	W0559	73-0497	08/11/09	9:50	Total Nitrogen	mg/L	0.76	
PQ01	W0559	73-0635	09/15/09	10:25	Total Nitrogen	mg/L	0.65	
PQ01	W0559	73-0205	04/28/09	9:53	Total Phosphorus	mg/L	0.017	
PQ01	W0559	73-0299	06/02/09	9:34	Total Phosphorus	mg/L	0.024	
PQ01	W0559	73-0380	07/07/09	9:45	Total Phosphorus	mg/L	0.030	
PQ01	W0559	73-0497	08/11/09	9:50	Total Phosphorus	mg/L	0.046	
PQ01	W0559	73-0635	09/15/09	10:25	Total Phosphorus	mg/L	0.041	
PQ01	W0559	73-0205	04/28/09	9:53	Turbidity	NTU	0.9	
PQ01	W0559	73-0299	06/02/09	9:34	Turbidity	NTU	3.1	b
PQ01	W0559	73-0380	07/07/09	9:45	Turbidity	NTU	2.7	
PQ01	W0559	73-0497	08/11/09	9:50	Turbidity	NTU	4.2	
PQ01	W0559	73-0635	09/15/09	10:25	Turbidity	NTU	6.4	
PQ01	W0559	73-0205	04/28/09	9:53	True Color	PCU	38	
PQ01	W0559	73-0299	06/02/09	9:34	True Color	PCU	46	
PQ01	W0559	73-0380	07/07/09	9:45	True Color	PCU	63	
PQ01	W0559	73-0497	08/11/09	9:50	True Color	PCU	95	
PQ01	W0559	73-0635	09/15/09	10:25	True Color	PCU	54	
PTB047	W0573	73-0215	04/28/09	12:37	*E. coli*	CFU/100mL	30	
PTB047	W0573	73-0309	06/02/09	11:58	*E. coli*	CFU/100mL	560	
PTB047	W0573	73-0390	07/07/09	12:45	*E. coli*	CFU/100mL	4900	
PTB047	W0573	73-0509	08/11/09	12:28	*E. coli*	CFU/100mL	360	
PTB047	W0573	73-0553	08/27/09	13:30	*E. coli*	CFU/100mL	230	
PTB047	W0573	73-0647	09/15/09	13:42	*E. coli*	CFU/100mL	210	
PTB047	W0573	73-0215	04/28/09	12:37	Ammonia-N	mg/L	<0.02	
PTB047	W0573	73-0309	06/02/09	11:58	Ammonia-N	mg/L	0.06	
PTB047	W0573	73-0390	07/07/09	12:45	Ammonia-N	mg/L	0.11	
PTB047	W0573	73-0509	08/11/09	12:28	Ammonia-N	mg/L	<0.02	
PTB047	W0573	73-0647	09/15/09	13:42	Ammonia-N	mg/L	0.02	
PTB047	W0573	73-0215	04/28/09	12:37	Total Nitrogen	mg/L	0.76	
PTB047	W0573	73-0309	06/02/09	11:58	Total Nitrogen	mg/L	0.97	
PTB047	W0573	73-0390	07/07/09	12:45	Total Nitrogen	mg/L	1.3	
PTB047	W0573	73-0509	08/11/09	12:28	Total Nitrogen	mg/L	1.1	
PTB047	W0573	73-0647	09/15/09	13:42	Total Nitrogen	mg/L	0.78	
PTB047	W0573	73-0215	04/28/09	12:37	Total Phosphorus	mg/L	0.022	
PTB047	W0573	73-0309	06/02/09	11:58	Total Phosphorus	mg/L	0.023	
PTB047	W0573	73-0390	07/07/09	12:45	Total Phosphorus	mg/L	0.077	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
PTB047	W0573	73-0509	08/11/09	12:28	Total Phosphorus	mg/L	0.021	
PTB047	W0573	73-0647	09/15/09	13:42	Total Phosphorus	mg/L	0.027	
PTB047	W0573	73-0215	04/28/09	12:37	Turbidity	NTU	1.3	
PTB047	W0573	73-0309	06/02/09	11:58	Turbidity	NTU	1.0	b
PTB047	W0573	73-0390	07/07/09	12:45	Turbidity	NTU	7.0	
PTB047	W0573	73-0509	08/11/09	12:28	Turbidity	NTU	1.0	
PTB047	W0573	73-0647	09/15/09	13:42	Turbidity	NTU	1.4	
PTB047	W0573	73-0215	04/28/09	12:37	True Color	PCU	45	
PTB047	W0573	73-0309	06/02/09	11:58	True Color	PCU	31	
PTB047	W0573	73-0390	07/07/09	12:45	True Color	PCU	68	
PTB047	W0573	73-0509	08/11/09	12:28	True Color	PCU	39	
PTB047	W0573	73-0647	09/15/09	13:42	True Color	PCU	52	
PU03	W1953	73-0229	04/28/09	10:57	*E. coli*	CFU/100mL	60	
PU03	W1953	73-0323	06/02/09	11:05	*E. coli*	CFU/100mL	250	
PU03	W1953	73-0406	07/07/09	11:17	*E. coli*	CFU/100mL	2000	
PU03	W1953	73-0523	08/11/09	11:21	*E. coli*	CFU/100mL	770	
PU03	W1953	73-0565	08/27/09	11:31	*E. coli*	CFU/100mL	##	b
PU03	W1953	73-0659	09/15/09	11:57	*E. coli*	CFU/100mL	460	
SH01	W1944	73-0209	04/28/09	10:45	*E. coli*	CFU/100mL	1100	
SH01	W1944	73-0303	06/02/09	10:19	*E. coli*	CFU/100mL	460	
SH01	W1944	73-0384	07/07/09	10:55	*E. coli*	CFU/100mL	160	
SH01	W1944	73-0501	08/11/09	10:44	*E. coli*	CFU/100mL	370	
SH01	W1944	73-0545	08/27/09	11:23	*E. coli*	CFU/100mL	280	
SH01	W1944	73-0639	09/15/09	11:32	*E. coli*	CFU/100mL	230	
SM02	W1936	73-0216	04/28/09	8:46	*E. coli*	CFU/100mL	110	
SM02	W1936	73-0310	06/02/09	8:31	*E. coli*	CFU/100mL	110	
SM02	W1936	73-0393	07/07/09	8:46	*E. coli*	CFU/100mL	30	
SM02	W1936	73-0510	08/11/09	8:51	*E. coli*	CFU/100mL	160	
SM02	W1936	73-0554	08/27/09	9:13	*E. coli*	CFU/100mL	##	b
SM02	W1936	73-0648	09/15/09	9:21	*E. coli*	CFU/100mL	120	
TH02	W0551	73-0200	04/28/09	8:51	*E. coli*	CFU/100mL	<10	
TH02	W0551	73-0294	06/02/09	8:38	*E. coli*	CFU/100mL	30	
TH02	W0551	73-0377	07/07/09	8:50	*E. coli*	CFU/100mL	230	
TH02	W0551	73-0494	08/11/09	8:58	*E. coli*	CFU/100mL	280	
TH02	W0551	73-0538	08/27/09	9:25	*E. coli*	CFU/100mL	230	
TH02	W0551	73-0632	09/15/09	9:33	*E. coli*	CFU/100mL	80	
TH02	W0551	73-0200	04/28/09	8:51	Ammonia-N	mg/L	<0.02	
TH02	W0551	73-0294	06/02/09	8:38	Ammonia-N	mg/L	0.02	
TH02	W0551	73-0377	07/07/09	8:50	Ammonia-N	mg/L	<0.02	
TH02	W0551	73-0494	08/11/09	8:58	Ammonia-N	mg/L	<0.02	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
TH02	W0551	73-0632	09/15/09	9:33	Ammonia-N	mg/L	0.02	
TH02	W0551	73-0200	04/28/09	8:51	Total Nitrogen	mg/L	0.77	
TH02	W0551	73-0294	06/02/09	8:38	Total Nitrogen	mg/L	0.91	
TH02	W0551	73-0377	07/07/09	8:50	Total Nitrogen	mg/L	0.97	
TH02	W0551	73-0494	08/11/09	8:58	Total Nitrogen	mg/L	0.86	
TH02	W0551	73-0632	09/15/09	9:33	Total Nitrogen	mg/L	0.85	
TH02	W0551	73-0200	04/28/09	8:51	Total Phosphorus	mg/L	0.014	
TH02	W0551	73-0294	06/02/09	8:38	Total Phosphorus	mg/L	0.013	
TH02	W0551	73-0377	07/07/09	8:50	Total Phosphorus	mg/L	0.039	
TH02	W0551	73-0494	08/11/09	8:58	Total Phosphorus	mg/L	0.014	
TH02	W0551	73-0632	09/15/09	9:33	Total Phosphorus	mg/L	0.014	
TH02	W0551	73-0200	04/28/09	8:51	Turbidity	NTU	1.3	
TH02	W0551	73-0294	06/02/09	8:38	Turbidity	NTU	0.8	b
TH02	W0551	73-0377	07/07/09	8:50	Turbidity	NTU	1.6	
TH02	W0551	73-0494	08/11/09	8:58	Turbidity	NTU	1.2	
TH02	W0551	73-0632	09/15/09	9:33	Turbidity	NTU	1.1	
TH02	W0551	73-0200	04/28/09	8:51	True Color	PCU	38	
TH02	W0551	73-0294	06/02/09	8:38	True Color	PCU	21	
TH02	W0551	73-0377	07/07/09	8:50	True Color	PCU	47	
TH02	W0551	73-0494	08/11/09	8:58	True Color	PCU	20	
TH02	W0551	73-0632	09/15/09	9:33	True Color	PCU	18	
TK01	W1937	73-0221	04/28/09	9:50	*E. coli*	CFU/100mL	10	
TK01	W1937	73-0315	06/02/09	9:45	*E. coli*	CFU/100mL	10	
TK01	W1937	73-0400	07/07/09	10:00	*E. coli*	CFU/100mL	80	
TK01	W1937	73-0517	08/11/09	10:00	*E. coli*	CFU/100mL	1100	
TK01	W1937	73-0559	08/27/09	10:18	*E. coli*	CFU/100mL	##	b
TK01	W1937	73-0653	09/15/09	10:40	*E. coli*	CFU/100mL	1500	
TK01	W1937	73-0221	04/28/09	9:50	Ammonia-N	mg/L	<0.02	
TK01	W1937	73-0315	06/02/09	9:45	Ammonia-N	mg/L	0.06	
TK01	W1937	73-0400	07/07/09	10:00	Ammonia-N	mg/L	0.05	
TK01	W1937	73-0517	08/11/09	10:00	Ammonia-N	mg/L	0.04	
TK01	W1937	73-0653	09/15/09	10:40	Ammonia-N	mg/L	0.05	
TK01	W1937	73-0221	04/28/09	9:50	Total Nitrogen	mg/L	1.6	
TK01	W1937	73-0315	06/02/09	9:45	Total Nitrogen	mg/L	1.9	
TK01	W1937	73-0400	07/07/09	10:00	Total Nitrogen	mg/L	1.9	
TK01	W1937	73-0517	08/11/09	10:00	Total Nitrogen	mg/L	1.9	
TK01	W1937	73-0653	09/15/09	10:40	Total Nitrogen	mg/L	1.9	
TK01	W1937	73-0221	04/28/09	9:50	Total Phosphorus	mg/L	0.020	
TK01	W1937	73-0315	06/02/09	9:45	Total Phosphorus	mg/L	0.020	
TK01	W1937	73-0400	07/07/09	10:00	Total Phosphorus	mg/L	0.034	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
TK01	W1937	73-0517	08/11/09	10:00	Total Phosphorus	mg/L	0.024	
TK01	W1937	73-0653	09/15/09	10:40	Total Phosphorus	mg/L	0.025	
TK01	W1937	73-0221	04/28/09	9:50	Turbidity	NTU	0.8	
TK01	W1937	73-0315	06/02/09	9:45	Turbidity	NTU	0.8	b
TK01	W1937	73-0400	07/07/09	10:00	Turbidity	NTU	1.4	
TK01	W1937	73-0517	08/11/09	10:00	Turbidity	NTU	1.3	
TK01	W1937	73-0653	09/15/09	10:40	Turbidity	NTU	1.0	
TK01	W1937	73-0221	04/28/09	9:50	True Color	PCU	65	
TK01	W1937	73-0315	06/02/09	9:45	True Color	PCU	43	
TK01	W1937	73-0400	07/07/09	10:00	True Color	PCU	68	
TK01	W1937	73-0517	08/11/09	10:00	True Color	PCU	29	
TK01	W1937	73-0653	09/15/09	10:40	True Color	PCU	42	
UQ01	W0579	73-0214	04/28/09	12:24	*E. coli*	CFU/100mL	430	
UQ01	W0579	73-0308	06/02/09	11:45	*E. coli*	CFU/100mL	1000	
UQ01	W0579	73-0389	07/07/09	12:37	*E. coli*	CFU/100mL	>8000	
UQ01	W0579	73-0506	08/11/09	12:12	*E. coli*	CFU/100mL	2600	
UQ01	W0579	73-0550	08/27/09	13:15	*E. coli*	CFU/100mL	1000	
UQ01	W0579	73-0644	09/15/09	13:30	*E. coli*	CFU/100mL	>8000	
UQ01	W0579	73-0214	04/28/09	12:24	Ammonia-N	mg/L	<0.02	
UQ01	W0579	73-0308	06/02/09	11:45	Ammonia-N	mg/L	0.04	
UQ01	W0579	73-0389	07/07/09	12:37	Ammonia-N	mg/L	0.47	
UQ01	W0579	73-0506	08/11/09	12:12	Ammonia-N	mg/L	<0.02	
UQ01	W0579	73-0644	09/15/09	13:30	Ammonia-N	mg/L	0.03	
UQ01	W0579	73-0214	04/28/09	12:24	Total Nitrogen	mg/L	2.4	
UQ01	W0579	73-0308	06/02/09	11:45	Total Nitrogen	mg/L	3.2	
UQ01	W0579	73-0389	07/07/09	12:37	Total Nitrogen	mg/L	3.1	
UQ01	W0579	73-0506	08/11/09	12:12	Total Nitrogen	mg/L	3.0	
UQ01	W0579	73-0644	09/15/09	13:30	Total Nitrogen	mg/L	2.6	
UQ01	W0579	73-0214	04/28/09	12:24	Total Phosphorus	mg/L	0.020	
UQ01	W0579	73-0308	06/02/09	11:45	Total Phosphorus	mg/L	0.020	
UQ01	W0579	73-0389	07/07/09	12:37	Total Phosphorus	mg/L	0.24	
UQ01	W0579	73-0506	08/11/09	12:12	Total Phosphorus	mg/L	0.020	
UQ01	W0579	73-0644	09/15/09	13:30	Total Phosphorus	mg/L	0.023	
UQ01	W0579	73-0214	04/28/09	12:24	Turbidity	NTU	0.5	
UQ01	W0579	73-0308	06/02/09	11:45	Turbidity	NTU	<0.5	b
UQ01	W0579	73-0389	07/07/09	12:37	Turbidity	NTU	27.0	
UQ01	W0579	73-0506	08/11/09	12:12	Turbidity	NTU	0.7	
UQ01	W0579	73-0644	09/15/09	13:30	Turbidity	NTU	1.0	
UQ01	W0579	73-0214	04/28/09	12:24	True Color	PCU	<15	
UQ01	W0579	73-0308	06/02/09	11:45	True Color	PCU	<15	

Table 7. 2009 MassDEP DWM Neponset River Watershed water quality data - rivers.

Station ID	Unique ID	OWMID	Date	Time	Analyte	Units	Result	Result Qualifiers
UQ01	W0579	73-0389	07/07/09	12:37	True Color	PCU	30	
UQ01	W0579	73-0506	08/11/09	12:12	True Color	PCU	<15	
UQ01	W0579	73-0644	09/15/09	13:30	True Color	PCU	<15	
UT01	W1952	73-0217	04/28/09	8:58	*E. coli*	CFU/100mL	30	
UT01	W1952	73-0311	06/02/09	8:53	*E. coli*	CFU/100mL	40	
UT01	W1952	73-0394	07/07/09	9:02	*E. coli*	CFU/100mL	90	
UT01	W1952	73-0511	08/11/09	9:03	*E. coli*	CFU/100mL	155	
UT01	W1952	73-0555	08/27/09	9:28	*E. coli*	CFU/100mL	##	b
UT01	W1952	73-0649	09/15/09	9:34	*E. coli*	CFU/100mL	60	
UT01	W1952	73-0217	04/28/09	8:58	Ammonia-N	mg/L	0.10	
UT01	W1952	73-0311	06/02/09	8:53	Ammonia-N	mg/L	0.06	
UT01	W1952	73-0394	07/07/09	9:02	Ammonia-N	mg/L	0.06	
UT01	W1952	73-0511	08/11/09	9:03	Ammonia-N	mg/L	0.03	
UT01	W1952	73-0649	09/15/09	9:34	Ammonia-N	mg/L	0.03	
UT01	W1952	73-0217	04/28/09	8:58	Total Nitrogen	mg/L	0.58	
UT01	W1952	73-0311	06/02/09	8:53	Total Nitrogen	mg/L	0.46	
UT01	W1952	73-0394	07/07/09	9:02	Total Nitrogen	mg/L	0.65	
UT01	W1952	73-0511	08/11/09	9:03	Total Nitrogen	mg/L	0.41	
UT01	W1952	73-0649	09/15/09	9:34	Total Nitrogen	mg/L	0.32	
UT01	W1952	73-0217	04/28/09	8:58	Total Phosphorus	mg/L	0.031	
UT01	W1952	73-0311	06/02/09	8:53	Total Phosphorus	mg/L	0.025	
UT01	W1952	73-0394	07/07/09	9:02	Total Phosphorus	mg/L	0.034	
UT01	W1952	73-0511	08/11/09	9:03	Total Phosphorus	mg/L	0.027	
UT01	W1952	73-0649	09/15/09	9:34	Total Phosphorus	mg/L	0.015	
UT01	W1952	73-0217	04/28/09	8:58	Turbidity	NTU	2.3	
UT01	W1952	73-0311	06/02/09	8:53	Turbidity	NTU	1.5	b
UT01	W1952	73-0394	07/07/09	9:02	Turbidity	NTU	2.1	
UT01	W1952	73-0511	08/11/09	9:03	Turbidity	NTU	1.4	
UT01	W1952	73-0649	09/15/09	9:34	Turbidity	NTU	0.9	
UT01	W1952	73-0217	04/28/09	8:58	True Color	PCU	31	
UT01	W1952	73-0311	06/02/09	8:53	True Color	PCU	25	
UT01	W1952	73-0394	07/07/09	9:02	True Color	PCU	64	
UT01	W1952	73-0511	08/11/09	9:03	True Color	PCU	39	
UT01	W1952	73-0649	09/15/09	9:34	True Color	PCU	21	
UTSH01	W1951	73-0208	04/28/09	10:31	*E. coli*	CFU/100mL	150	
UTSH01	W1951	73-0302	06/02/09	10:12	*E. coli*	CFU/100mL	100	
UTSH01	W1951	73-0383	07/07/09	10:44	*E. coli*	CFU/100mL	290	
UTSH01	W1951	73-0500	08/11/09	10:36	*E. coli*	CFU/100mL	100	
UTSH01	W1951	73-0544	08/27/09	11:13	*E. coli*	CFU/100mL	2000	
UTSH01	W1951	73-0638	09/15/09	11:24	*E. coli*	CFU/100mL	2500	

Table 8. Geometric mean* of the 2009 *E. coli* results for each DWM river sampling station.

Station ID	Unique ID	Sample Count	Geometric Mean (CFU/100 ml)
BB01	W0557	6	61
BB02	W1940	5	88
BM02	W1945	6	197
GB02	W1942	5	197
HAB010	W0544	5	231
MB01	W1938	5	50
MB02	W1941	5	120
ME01	W1950	5	705
MN01	W1939	5	19
MOB032	W1949	5	74
MP01	W1946	6	32
NE11	W1943	5	104
NE12	W1963	6	158
NE12B	W0568	6	129
NER185	W1935	5	245
NR01	W1933	6	245
NR03	W1934	5	480
PC01	W1948	6	80
PF01	W1947	5	793
POB040	W0566	6	158
PQ01	W0559	6	68
PTB047	W0573	6	336
PU03	W1953	5	403
SH01	W1944	6	353
SM02	W1936	5	93
TH02	W0551	6	84
TK01	W1937	5	106
UQ01	W0579	6	2038
UT01	W1952	5	63
UTSH01	W1951	6	360

*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. 2009 MassDEP DWM Neponset River Watershed water quality data - lake.

Station ID	Unique ID	OWMID	Date	Time	Relative Sample Depth	Analyte	Units	Result	Data Qualifiers
PONK	W2097	73-0423	7/23/2009	11:04	--	Chlorophyll a	mg/m3	2.2	
PONK	W2097	73-0417	7/23/2009	10:51	Surface	Total Phosphorus	mg/L	0.008	
PONK	W2097	73-0420	7/23/2009	10:56	Near bottom	Total Phosphorus	mg/L	0.007	
PONK	W2097	73-0417	7/23/2009	10:51	Surface	True Color	PCU	24	
PONK	W2097	73-0417	7/23/2009	10:51	Surface	Turbidity	NTU	0.9	
PONK	W2097	73-0533	8/20/2009	10:20	--	Chlorophyll a	mg/m3	6.2	d
PONK	W2097	73-0530	8/20/2009	10:12	Surface	Total Phosphorus	mg/L	0.014	
PONK	W2097	73-0697	8/20/2009	11:04	Near bottom	Total Phosphorus	mg/L	0.009	
PONK	W2097	73-0530	8/20/2009	10:12	Surface	True Color	PCU	29	
PONK	W2097	73-0530	8/20/2009	10:12	Surface	Turbidity	NTU	1.8	
RESP	W2096	73-0426	7/23/2009	13:15	--	Chlorophyll a	mg/m3	3.6	
RESP	W2096	73-0421	7/23/2009	12:45	Surface	Total Phosphorus	mg/L	0.019	
RESP	W2096	73-0422	7/23/2009	13:00	Near bottom	Total Phosphorus	mg/L	0.021	
RESP	W2096	73-0421	7/23/2009	12:45	Surface	True Color	PCU	64	
RESP	W2096	73-0421	7/23/2009	12:45	Surface	Turbidity	NTU	2.0	
RESP	W2096	73-0537	8/20/2009	14:00	--	Chlorophyll a	mg/m3	7.8	m
RESP	W2096	73-0536	8/20/2009	13:55	Surface	Total Phosphorus	mg/L	0.033	
RESP	W2096	73-0536	8/20/2009	13:55	Surface	True Color	PCU	85	
RESP	W2096	73-0536	8/20/2009	13:55	Surface	Turbidity	NTU	3.5	

Table 10. 2009 MassDEP DWM Neponset River Watershed attended multi-probe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
BB01	W0557	73-0263	5/29/2009	14:55	0.4		12.6		6.5		242		155		8.5		82	
BB01	W0557	73-0283	6/1/2009	11:29	0.5		14.2		6.5		248		158		7.1		70	
BB01	W0557	73-0359	6/19/2009	13:04	--		15.9	s	--		--		--		--		--	
BB01	W0557	73-0456	8/7/2009	14:10	0.6		21.5		6.4		243		155		5.9		68	
BB01	W0557	73-0476	8/10/2009	11:38	0.5		19.1		6.4		246		157		5.4		59	
BB01	W0557	73-0601	9/11/2009	12:46	0.5		14.6		6.6		294		188		6.1		60	
BB01	W0557	73-0621	9/14/2009	11:05	0.5		16.4		6.5		219		140		4.7		49	
BB01	W0557	73-0371	9/28/2009	10:18	--		14.4	s	--		--		--		--		--	
BM02	W1945	73-0260	5/29/2009	13:16	0.3		13.0		6.6		428		274		8.0		77	
BM02	W1945	73-0280	6/1/2009	10:06	0.2		12.9		6.6		455		291		7.5		72	
BM02	W1945	73-0453	8/7/2009	12:45	0.2		20.8		6.4		429		275		4.2		48	
BM02	W1945	73-0473	8/10/2009	10:20	0.1		19.2		6.5		440		282		5.0		55	
BM02	W1945	73-0598	9/11/2009	11:24	0.0	i	14.3		6.7		547		350		6.7		65	
BM02	W1945	73-0618	9/14/2009	9:53	0.1		16.1		6.3		338		216		4.6		47	
GB02	W1942	73-0273	6/1/2009	14:11	0.3		13.3		7.2		524		335		9.6		93	
GB02	W1942	73-0293	6/3/2009	10:58	0.1		14.0		7.3		547		350		9.5		93	
GB02	W1942	73-0466	8/10/2009	14:19	0.1		18.9		7.3		551		353		8.8		96	
GB02	W1942	73-0486	8/12/2009	10:45	0.2		18.2		7.3		511		327		8.7		93	
GB02	W1942	73-0611	9/14/2009	13:41	0.2		16.5		7.2		446		286		9.0		94	
GB02	W1942	73-0631	9/16/2009	10:56	0.2		15.1		7.2		509		326		9.4		95	
HAB010	W0544	73-0255	5/29/2009	10:22	0.3		14.8		7.1		361		231		9.1		91	
HAB010	W0544	73-0275	6/1/2009	10:36	0.2		16.7		7.1		359		230		8.9		92	
HAB010	W0544	73-0448	8/7/2009	9:57	0.3		21.8		7.2		364		233		8.1		94	
HAB010	W0544	73-0468	8/10/2009	9:23	0.2		21.4		7.0		357		229		7.9		91	
HAB010	W0544	73-0593	9/11/2009	9:21	0.2		17.2		7.2		354	u	227	u	8.6		90	
HAB010	W0544	73-0613	9/14/2009	9:47	0.2		17.8		7.0		308		197		8.7		93	

Table 10. 2009 MassDEP DWM Neponset River Watershed attended multi-probe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
MB01	W1938	73-0271	6/1/2009	13:10	0.1		15.2		6.5		187		120		8.7		88	
MB01	W1938	73-0291	6/3/2009	10:12	0.1		14.7		6.5		194		124		8.6		86	
MB01	W1938	73-0354	6/19/2009	11:40	--		15.1	s	--		--		--		--		--	
MB01	W1938	73-0464	8/10/2009	13:29	0.1		18.8		6.5		201		129		7.7		85	
MB01	W1938	73-0484	8/12/2009	10:02	0.1		19.0		6.5		201		129		7.3		80	
MB01	W1938	73-0609	9/14/2009	12:59	0.2		16.9		6.5		160		103		8.3		87	
MB01	W1938	73-0629	9/16/2009	10:14	0.2		15.5		6.5		180		115		8.5		86	
MB01	W1938	73-0366	9/23/2009	12:42	--		16.0	s	--		--		--		--		--	
MB02	W1941	73-0352	6/19/2009	10:55	--		15.8	s	--		--		--		--		--	
MB02	W1941	73-0364	9/23/2009	12:13	--		16.7	s	--		--		--		--		--	
MOB032	W1949	73-0264	6/1/2009	13:02	0.2		19.6		7.3		595		381		8.6		95	
MOB032	W1949	73-0284	6/3/2009	11:36	0.2		19.9		7.3		601		384		7.9		87	
MOB032	W1949	73-0457	8/10/2009	11:14	0.1		23.5		6.9		396		253		6.0		71	
MOB032	W1949	73-0477	8/12/2009	11:24	0.1		24.6		7.1		402		257		5.5		67	
MOB032	W1949	73-0602	9/14/2009	12:01	0.1		19.9		7.2		524		335		8.4		94	
MOB032	W1949	73-0622	9/16/2009	11:35	0.1		20.1		7.2		493		315		7.7		85	
NE11	W1943	73-0269	6/1/2009	12:14	0.5		16.9		7.1		504		323		9.1		95	
NE11	W1943	73-0289	6/3/2009	9:30	0.4		16.8		6.9		509		326		8.5		88	
NE11	W1943	73-0355	6/19/2009	12:13	--		17.4	s	--		--		--		--		--	
NE11	W1943	73-0462	8/10/2009	12:14	0.3		21.2		7.1		422		270		8.5		97	
NE11	W1943	73-0482	8/12/2009	9:17	0.2		22.8		7.0		432		277		7.5		89	
NE11	W1943	73-0607	9/14/2009	12:17	0.5		18.3		7.0		286		183		8.8		95	
NE11	W1943	73-0627	9/16/2009	9:41	0.5		17.9		7.0		318		203		8.8		94	
NE11	W1943	73-0367	9/23/2009	13:03	--		19.0	s	--		--		--		--		--	
NE11	W1943	73-0689	9/25/2009	9:43	0.4		17.7		7.0		358		229		8.5		91	

Table 10. 2009 MassDEP DWM Neponset River Watershed attended multi-probe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
NE11	W1943	73-0693	9/28/2009	9:55	0.4		15.6		6.9	u	321		205		9.1		94	
NE12	W1963	73-0262	5/29/2009	14:18	0.3		14.7		7.3		331		212		9.9		100	
NE12	W1963	73-0282	6/1/2009	11:00	0.3		16.0		7.3		340		218		9.7		100	
NE12	W1963	73-0358	8/7/2009	13:38	--		24.4	s	--		--		--		--		--	
NE12	W1963	73-0455	8/7/2009	13:38	0.4		24.4		7.4		295		189		8.4		102	
NE12	W1963	73-0475	8/10/2009	11:10	0.1		21.9		7.3		304		195		8.6		100	
NE12	W1963	73-0600	9/11/2009	12:15	0.3		17.2		7.5		347		222		9.3		96	
NE12	W1963	73-0620	9/14/2009	10:39	0.3		18.4		7.3		256		164		9.2		100	
NE12	W1963	73-0370	9/23/2009	14:06	--		19.7	s	--		--		--		--		--	
NE12B	W0568	73-0258	5/29/2009	12:15	0.4		13.9		6.7		418		268		7.7		76	
NE12B	W0568	73-0278	6/1/2009	12:21	0.2		18.2		6.8		436		279		6.7		71	
NE12B	W0568	73-0350	8/7/2009	11:47	--		22.6	s	--		--		--		--		--	
NE12B	W0568	73-0451	8/7/2009	11:47	0.6		22.6		6.7		400		256		6.0		70	
NE12B	W0568	73-0471	8/10/2009	10:39	0.6		21.1		6.7		424		271		6.7		77	
NE12B	W0568	73-0596	9/11/2009	10:40	0.3		16.8		7.0		477		305		7.9		81	
NE12B	W0568	73-0616	9/14/2009	11:15	0.9		18.7		6.6		322		206		7.0		76	
NE12B	W0568	73-0362	9/25/2009	10:41	--		18.4	s	--		--		--		--		--	
NE12B	W0568	73-0691	9/25/2009	10:52	0.4		18.4		6.8		470		301		7.1		77	
NE12B	W0568	73-0695	9/28/2009	11:11	0.5		16.3		6.8		452		289		7.2		76	
NER185	W1935	73-0266	6/1/2009	14:14	0.2		19.7		7.1		465		298		9.2		101	
NER185	W1935	73-0286	6/3/2009	12:22	0.3		19.3		7.1		513		329		9.5		104	
NER185	W1935	73-0348	6/19/2009	9:50	--		17.9	s	--		--		--		--		--	
NER185	W1935	73-0459	8/10/2009	**	**		**		**		**		**		**		**	
NER185	W1935	73-0479	8/12/2009	12:10	0.2		23.3		7.1		476		305		7.8		93	
NER185	W1935	73-0604	9/14/2009	13:19	0.4		19.3		7.0		343		220		9.0		100	

Table 10. 2009 MassDEP DWM Neponset River Watershed attended multi-probe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
NER185	W1935	73-0624	9/16/2009	12:31	0.5		18.9		7.1		404		259		9.1		99	
NER185	W1935	73-0360	9/23/2009	10:58	--		17.1	s	--		--		--		--		--	
NR01	W1933	73-0256	5/29/2009	10:47	0.3		14.3		7.0		428		274		9.1		90	
NR01	W1933	73-0276	6/1/2009	11:09	0.2		17.4		7.0		443		284		8.6		91	
NR01	W1933	73-0357	8/7/2009	10:25	--		22.2	s	--		--		--		--		--	
NR01	W1933	73-0449	8/7/2009	10:25	0.4		22.2		7.0		395		253		8.0		93	
NR01	W1933	73-0469	8/10/2009	9:45	0.4		21.3		7.0		411		263		8.0		92	
NR01	W1933	73-0594	9/11/2009	9:45	0.4		17.2		7.2		436		279		8.7		91	
NR01	W1933	73-0614	9/14/2009	10:13	0.5		18.4		7.0		343		219		8.6		93	
NR01	W1933	73-0369	9/23/2009	13:45	--		19.0	s	--		--		--		--		--	
NR03	W1934	73-0265	6/1/2009	13:33	0.4		17.8		6.7		456		292		7.1		76	
NR03	W1934	73-0285	6/3/2009	11:54	0.3		18.3		6.7		485		311		6.5		70	
NR03	W1934	73-0349	6/19/2009	**	**		**		**		**		**		**		**	
NR03	W1934	73-0458	8/10/2009	**	**		**		**		**		**		**		**	
NR03	W1934	73-0478	8/12/2009	11:42	0.5		23.5		6.8		440		282		5.6		67	
NR03	W1934	73-0603	9/14/2009	12:38	0.5		19.0		6.6		328		210		7.2		79	
NR03	W1934	73-0623	9/16/2009	11:58	0.7		18.4		6.8		394		252		7.2		77	
NR03	W1934	73-0361	10/1/2009	**	**		**		**		**		**		**		**	
PC01	W1948	73-0257	5/29/2009	11:28	0.3		12.3		6.9		326		208		9.3		89	
PC01	W1948	73-0277	6/1/2009	11:51	0.2		15.7		7.0		327		209		9.2		94	
PC01	W1948	73-0450	8/7/2009	11:08	0.3		19.1		7.2		358		229		8.6		94	
PC01	W1948	73-0470	8/10/2009	10:15	0.2		19.6		7.0		361		231		8.3		92	
PC01	W1948	73-0595	9/11/2009	10:16	0.2		15.7		7.3		365		234		9.3		94	
PC01	W1948	73-0615	9/14/2009	10:50	0.2		17.3		6.8		299		191		8.7		92	
POB040	W0566	73-0259	5/29/2009	12:35	0.3		12.7		6.6		449		289		8.8		85	

Table 10. 2009 MassDEP DWM Neponset River Watershed attended multi-probe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
POB040	W0566	73-0279	6/1/2009	9:40	0.3		12.6		6.5		456		292		7.8		75	
POB040	W0566	73-0452	8/7/2009	12:15	0.3		20.1		6.6		419		268		8.5		95	
POB040	W0566	73-0472	8/10/2009	9:45	0.3		18.2		6.5		448		287		7.1		77	
POB040	W0566	73-0597	9/11/2009	10:58	0.2		14.2		6.6		613		392		7.8		76	
POB040	W0566	73-0617	9/14/2009	9:26	0.1		15.5		6.5		410		262		6.2		63	
POB040	W0566	73-0690	9/25/2009	10:30	0.2		14.9		6.5		567		363		7.1		71	
POB040	W0566	73-0694	9/28/2009	10:52	0.3		14.9		6.5		565		362		7.1		73	
PONK	W2097	73-0415	7/23/2009	10:34	1.4		24.1		7.0		174		111		7.9		95	
PONK	W2097	73-0528	8/20/2009	10:42	0.1		28.6	m	7.4	m	177	m	113	m	8.0	m	106	m
PONK	W2097	73-0528	8/20/2009	10:46	1.0		28.0		7.4		176		113		8.0		104	
PONK	W2097	73-0528	8/20/2009	10:51	1.9		25.2	m	6.3	m	187	m	120	m	4.2	u, m	52	u, m
PQ01	W0559	73-0261	5/29/2009	13:49	0.5		15.5		7.0		326		209		8.2		83	
PQ01	W0559	73-0281	6/1/2009	10:36	0.4		17.0		6.9		327		209		7.9		83	
PQ01	W0559	73-0454	8/7/2009	13:14	0.3		25.2		7.0		300		192		6.4		79	
PQ01	W0559	73-0474	8/10/2009	10:47	0.2		23.2		7.1		300		192		6.6		78	
PQ01	W0559	73-0599	9/11/2009	11:54	0.3		17.4		7.3		334		214		8.1		85	
PQ01	W0559	73-0619	9/14/2009	10:20	0.3		17.7		7.2		323		206		8.0		86	
PTB047	W0573	73-0267	6/1/2009	14:52	0.1		19.2		7.0		432		277		9.1		100	
PTB047	W0573	73-0287	6/3/2009	12:52	0.1		18.5		7.0		452		289		9.5		102	
PTB047	W0573	73-0460	8/10/2009	**	**		**		**		**		**		**		**	
PTB047	W0573	73-0480	8/12/2009	13:06	0.2		20.5		7.0		458		293		8.7		98	
PTB047	W0573	73-0605	9/14/2009	13:45	0.1		19.1		6.8		351		225		9.1		100	
PTB047	W0573	73-0625	9/16/2009	13:00	0.1		17.3		7.0		391		250		9.8		104	
PU03	W1953	73-0351	6/19/2009	10:30	--		16.9	s	--		--		--		--		--	
PU03	W1953	73-0363	9/23/2009	11:49	--		17.6	s	--		--		--		--		--	

Table 10. 2009 MassDEP DWM Neponset River Watershed attended multi-probe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
RESP	W2096	73-0416	7/23/2009	12:35	1.1		23.9		8.1	r	303	r	194	r	8.7	r	104	r
RESP	W2096	73-0529	8/20/2009	13:57	0.1		30.2	m	7.5	m, r	317	m, r	203	m, r	7.7	m, r	104	m, r
RESP	W2096	73-0529	8/20/2009	14:01	0.8		28.7	m	7.3	m, r	315	m, r	202	m, r	7.2	u, m, r	94	u, m, r
RESP	W2096	73-0529	8/20/2009	14:05	1.4		27.2		6.9	r	313	r	200	r	5.1	u, r	66	u, r
TH02	W0551	73-0254	5/29/2009	9:52	0.2		10.8		6.7		561		359		10.2		94	
TH02	W0551	73-0274	6/1/2009	9:57	0.1		10.7		6.8		602		385		10.5		96	
TH02	W0551	73-0356	6/19/2009	12:44	--		14.6	s	--		--		--		--		--	
TH02	W0551	73-0447	8/7/2009	9:35	0.2		15.2		6.8		609		390		9.5		96	
TH02	W0551	73-0467	8/10/2009	9:05	0.2		15.7		6.6		568		364		9.1		93	
TH02	W0551	73-0592	9/11/2009	9:03	0.1		12.5		6.9		732		468		10.0		94	
TH02	W0551	73-0612	9/14/2009	9:25	0.2		14.3		6.6		572		366		9.5		94	
TH02	W0551	73-0368	9/23/2009	13:21	--		15.6	s	--		--		--		--		--	
TK01	W1937	73-0272	6/1/2009	13:45	0.1		13.3		6.4		248		159		9.0		87	
TK01	W1937	73-0292	6/3/2009	10:33	0.1		13.1		6.4		253		162		9.0		87	
TK01	W1937	73-0353	6/19/2009	11:17	--		14.6	s	--		--		--		--		--	
TK01	W1937	73-0465	8/10/2009	13:50	0.1		17.3		6.4		264		169		8.3		89	
TK01	W1937	73-0485	8/12/2009	10:22	0.1		16.0		6.5		260		167		8.3		85	
TK01	W1937	73-0610	9/14/2009	13:18	0.2		15.2		6.5		265		170		8.3		84	
TK01	W1937	73-0630	9/16/2009	10:32	0.3		13.0		6.5		272		174		9.2		88	
TK01	W1937	73-0365	9/23/2009	12:28	--		14.6	s	--		--		--		--		--	
UQ01	W0579	73-0268	6/1/2009	15:21	0.1		13.7		6.6		582		373		9.0		88	
UQ01	W0579	73-0288	6/3/2009	13:17	0.1		13.5		6.6		583		373		9.3		90	
UQ01	W0579	73-0461	8/10/2009	**	**		**		**		**		**		**		**	
UQ01	W0579	73-0481	8/12/2009	13:25	0.1		15.8		6.5		570		365		8.5		88	
UQ01	W0579	73-0606	9/14/2009	14:10	0.0	i	16.7		6.6		549		351		8.4		88	

Table 10. 2009 MassDEP DWM Neponset River Watershed attended multi-probe and temperature probe data – rivers and lakes.

Station ID	Unique ID	OWMID	Date	Time	Sample Depth (m)	Depth Qualifiers	Temperature (deg. C)	Temperature Qualifiers	pH (SU)	pH Qualifiers	Specific Conductivity (µS/cm)	Specific Conductivity Qualifiers	Total Dissolved Solids (mg/l)	Total Dissolved Solids Qualifiers	Dissolved Oxygen (mg/l)	Dissolved Oxygen Qualifiers	Dissolved Oxygen Saturation (%)	Dissolved Oxygen Saturation Qualifiers
UQ01	W0579	73-0626	9/16/2009	13:23	0.2		15.5		6.7		563		360		8.8		90	
UQ01	W0579	73-0692	9/25/2009	11:29	0.1		15.1		6.6		574		368		8.9		89	
UQ01	W0579	73-0696	9/28/2009	11:50	0.1		16.0		6.6		569		364		8.4		88	
UT01	W1952	73-0270	6/1/2009	12:39	0.2		19.3		7.1		611		391		7.5		83	
UT01	W1952	73-0290	6/3/2009	9:46	0.1		20.0		7.0		636		407		7.0		78	
UT01	W1952	73-0463	8/10/2009	12:32	0.0	i	24.3		7.2		541		347		7.9		97	
UT01	W1952	73-0483	8/12/2009	9:32	0.0	i	24.5		7.0		540		346		5.6		68	
UT01	W1952	73-0608	9/14/2009	12:32	0.2		20.3		7.3		505		323		9.0		101	
UT01	W1952	73-0628	9/16/2009	9:20	0.2		19.0		7.0		537		344		7.1		78	

Table 11. 2009 MassDEP DWM Neponset River Watershed unattended multi-probes dissolved oxygen data - rivers.

Station ID	Unique ID	OWMID	Start Date	Deployment Duration (Hours)	Average Dissolved Oxygen (mg/L)	Minimum Dissolved Oxygen (mg/L)	Amount of Time < 5.0 mg/L (Hours)	Percentage of Time < 5.0 mg/L (%)	Amount of Time < 6.0 mg/L (Hours)	Percentage of Time < 6.0 mg/L (%)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
BB01	W0557	73-0243	05/29/09	66.0	7.5	5.5	0.0	0.0	8.3	12.5	78	55	103
BB01	W0557	73-0436	08/07/09	65.5	4.7	3.2	41.0	62.6	52.8	80.5	52	35	78
BB01	W0557	73-0581	09/11/09	70.0	5.6	3.8	21.4	30.5	41.7	59.5	58	39	75
BM02	W1945	73-0240	05/29/09	68.5	6.6	4.7	0.6	0.9	20.9	30.6	68	49	91
BM02	W1945	73-0433	08/07/09	67.0	4.6	3.7	52.3	78.0	67.0	100.0	50	41	64
BM02	W1945	73-0578	09/11/09	70.0	5.2	3.9	38.7	55.3	45.0	64.3	54	41	72
GB02	W1942	73-0253	06/01/09	44.0	9.2	8.8	0.0	0.0	0.0	0.0	91	89	93
GB02	W1942	73-0446	08/10/09	44.0	8.1	7.4	0.0	0.0	0.0	0.0	89	84	94
GB02	W1942	73-0591	09/14/09	44.5	9.0	8.6	0.0	0.0	0.0	0.0	91	90	94
HAB010	W0544	73-0235	05/29/09	72.0	8.3	7.7	0.0	0.0	0.0	0.0	89	85	92
HAB010	W0544	73-0428	08/07/09	70.0	7.9	7.6	0.0	0.0	0.0	0.0	92	87	98
HAB010	W0544	73-0573	09/11/09	72.0	8.5	8.0	0.0	0.0	0.0	0.0	91	87	95
MB01	W1938	73-0251	06/01/09	44.5	8.6	8.3	0.0	0.0	0.0	0.0	87	85	92
MB01	W1938	73-0444	08/10/09	44.5	7.3	6.9	0.0	0.0	0.0	0.0	81	77	86
MB01	W1938	73-0589	09/14/09	45.0	7.9	7.7	0.0	0.0	0.0	0.0	80	79	83
MOB032	W1949	73-0244	06/01/09	46.0	7.6	6.3	0.0	0.0	0.0	0.0	86	69	104
MOB032	W1949	73-0437	08/10/09	47.5	6.1	5.1	0.0	0.0	21.1	44.5	77	62	93
MOB032	W1949	73-0582	09/14/09	47.0	8.4	7.5	0.0	0.0	0.0	0.0	94	83	107
NE11	W1943	73-0249	06/01/09	45.0	8.5	7.9	0.0	0.0	0.0	0.0	92	85	102
NE11	W1943	73-0587	09/14/09	45.0	8.3	8.0	0.0	0.0	0.0	0.0	89	86	92
NE11	W1943	73-0685	09/25/09	71.5	9.1	8.5	0.0	0.0	0.0	0.0	93	90	100
NE11	W1943	73-0442	--	--	--	--	--	--	--	--	--	--	--
NE12	W1963	73-0242	05/29/09	68.5	9.5	8.7	0.0	0.0	0.0	0.0	102	100	104
NE12	W1963	73-0435	08/07/09	66.0	8.5	8.0	0.0	0.0	0.0	0.0	100	98	102
NE12	W1963	73-0580	09/11/09	70.0	8.9	8.5	0.0	0.0	0.0	0.0	95	93	97
NE12B	W0568	73-0238	05/29/09	71.5	7.5	6.9	0.0	0.0	0.0	0.0	79	73	82
NE12B	W0568	73-0576	09/11/09	72.0	7.6	7.0	0.0	0.0	0.0	0.0	80	75	84
NE12B	W0568	73-0687	09/25/09	72.0	7.6	7.1	0.0	0.0	0.0	0.0	78	72	84
NE12B	W0568	73-0431	--	--	--	--	--	--	--	--	--	--	--
NER185	W1935	73-0246	06/01/09	45.5	8.3	7.9	0.0	0.0	0.0	0.0	90	85	99
NER185	W1935	73-0439	08/10/09	47.5	7.8	7.1	0.0	0.0	0.0	0.0	92	84	104
NER185	W1935	73-0584	09/14/09	47.0	8.5	8.2	0.0	0.0	0.0	0.0	91	88	99
NR01	W1933	73-0236	05/29/09	72.0	8.2	7.4	0.0	0.0	0.0	0.0	86	82	91
NR01	W1933	73-0429	08/07/09	69.5	7.9	7.5	0.0	0.0	0.0	0.0	91	87	99
NR01	W1933	73-0574	09/11/09	22.5	8.3	6.6	0.0	0.0	0.0	0.0	87	69	97
NR03	W1934	73-0245	06/01/09	45.5	6.5	6.1	0.0	0.0	0.0	0.0	70	65	75
NR03	W1934	73-0438	08/10/09	47.5	6.0	5.5	0.0	0.0	26.6	56.0	71	65	76
NR03	W1934	73-0583	09/14/09	46.5	7.1	7.0	0.0	0.0	0.0	0.0	76	74	79
PC01	W1948	73-0237	05/29/09	72.0	8.5	7.5	0.0	0.0	0.0	0.0	87	83	93
PC01	W1948	73-0430	08/07/09	68.5	8.1	7.3	0.0	0.0	0.0	0.0	89	85	94
PC01	W1948	73-0575	09/11/09	72.0	8.3	7.9	0.0	0.0	0.0	0.0	87	81	95
POB040	W0566	73-0239	05/29/09	68.5	8.1	7.0	0.0	0.0	0.0	0.0	83	68	99
POB040	W0566	73-0432	08/07/09	0.0	--	--	--	--	--	--	--	--	--
POB040	W0566	73-0577	09/11/09	70.0	7.1	5.6	0.0	0.0	22.8	32.6	73	56	97
POB040	W0566	73-0686	09/25/09	71.5	8.6	6.5	0.0	0.0	0.0	0.0	84	64	109

Table 11. 2009 MassDEP DWM Neponset River Watershed unattended multi-probes dissolved oxygen data - rivers.

Station ID	Unique ID	OWMID	Start Date	Deployment Duration (Hours)	Average Dissolved Oxygen (mg/L)	Minimum Dissolved Oxygen (mg/L)	Amount of Time < 5.0 mg/L (Hours)	Percentage of Time < 5.0 mg/L (%)	Amount of Time < 6.0 mg/L (Hours)	Percentage of Time < 6.0 mg/L (%)	Average Saturation (%)	Minimum Saturation (%)	Maximum Saturation (%)
PQ01	W0559	73-0241	05/29/09	68.5	7.8	7.1	0.0	0.0	0.0	0.0	83	78	86
PQ01	W0559	73-0434	08/07/09	66.5	6.5	6.1	0.0	0.0	0.0	0.0	77	74	80
PQ01	W0559	73-0579	09/11/09	70.0	7.3	6.4	0.0	0.0	0.0	0.0	78	71	84
PTB047	W0573	73-0247	06/01/09	45.5	8.2	7.5	0.0	0.0	0.0	0.0	87	79	101
PTB047	W0573	73-0440	08/10/09	48.5	7.6	5.7	0.0	0.0	2.3	4.7	88	65	112
PTB047	W0573	73-0585	09/14/09	47.0	8.2	7.5	0.0	0.0	0.0	0.0	87	81	101
TH02	W0551	73-0234	05/29/09	71.5	9.6	8.8	0.0	0.0	0.0	0.0	92	89	96
TH02	W0551	73-0427	08/07/09	70.0	9.3	8.6	0.0	0.0	0.0	0.0	95	89	97
TH02	W0551	73-0572	09/11/09	23.5	9.4	8.8	0.0	0.0	0.0	0.0	92	88	95
TK01	W1937	73-0252	06/01/09	44.5	8.8	8.4	0.0	0.0	0.0	0.0	86	84	90
TK01	W1937	73-0445	08/10/09	44.0	8.0	7.6	0.0	0.0	0.0	0.0	84	79	90
TK01	W1937	73-0590	09/14/09	45.0	8.5	7.9	0.0	0.0	0.0	0.0	83	80	85
UQ01	W0579	73-0248	06/01/09	45.5	9.3	9.0	0.0	0.0	0.0	0.0	89	87	93
UQ01	W0579	73-0586	09/14/09	46.5	8.4	8.1	0.0	0.0	0.0	0.0	85	82	88
UQ01	W0579	73-0688	09/25/09	72.0	8.4	7.5	0.0	0.0	0.0	0.0	84	75	90
UQ01	W0579	73-0441	--	--	--	--	--	--	--	--	--	--	--
UT01	W1952	73-0250	06/01/09	44.5	7.4	6.7	0.0	0.0	0.0	0.0	85	75	94
UT01	W1952	73-0443	08/10/09	44.5	7.4	5.4	0.0	0.0	3.4	7.7	94	66	108
UT01	W1952	73-0588	09/14/09	44.0	8.4	6.9	0.0	0.0	0.0	0.0	95	74	112

Table 12. 2009 MassDEP DWM Neponset River Watershed unattended probes temperature data – rivers.

Unique ID	Station ID	OWMID	Start Date	Deployment Duration (Hours)	Average (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)	Percentage of Time > 28.3 deg. C (%)
BB01	W0557	73-0243	05/29/09	66.0	16.1	20.5	20.3	2.8	4.2	0.0	0.0
BB01	W0557	73-0347	06/19/09	2420.5	18.8	26.8	20.5	819.0	33.8	0.0	0.0
BB01	W0557	73-0436	08/07/09	65.5	18.9	22.8	20.2	17.2	26.3	0.0	0.0
BB01	W0557	73-0581	09/11/09	70.0	16.5	19.1	17.9	0.0	0.0	0.0	0.0
BM02	W1945	73-0240	05/29/09	68.5	16.0	22.3	21.8	11.4	16.6	0.0	0.0
BM02	W1945	73-0433	08/07/09	67.0	18.9	22.6	20.7	17.4	25.9	0.0	0.0
BM02	W1945	73-0578	09/11/09	70.0	16.8	19.0	18.1	0.0	0.0	0.0	0.0
GB02	W1942	73-0253	06/01/09	44.0	14.0	15.3	15.3	0.0	0.0	0.0	0.0
GB02	W1942	73-0446	08/10/09	44.0	19.2	21.4	21.4	5.4	12.2	0.0	0.0
GB02	W1942	73-0591	09/14/09	44.5	16.1	17.2	17.0	0.0	0.0	0.0	0.0
HAB010	W0544	73-0235	05/29/09	72.0	17.5	20.9	20.5	9.9	13.8	0.0	0.0
HAB010	W0544	73-0428	08/07/09	70.0	21.6	24.2	22.6	65.6	93.7	0.0	0.0
HAB010	W0544	73-0573	09/11/09	72.0	18.2	20.3	19.4	5.6	7.8	0.0	0.0
MB01	W1938	73-0251	06/01/09	44.5	14.9	16.6	16.6	0.0	0.0	0.0	0.0
MB01	W1938	73-0342	06/19/09	2304.5	17.5	24.2	18.7	399.0	17.3	0.0	0.0

Table 12. 2009 MassDEP DWM Neponset River Watershed unattended probes temperature data – rivers.

Unique ID	Station ID	OWMID	Start Date	Deployment Duration (Hours)	Average (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)	Percentage of Time > 28.3 deg. C (%)
MB01	W1938	73-0444	08/10/09	44.5	19.5	21.1	21.1	11.6	26.0	0.0	0.0
MB01	W1938	73-0589	09/14/09	45.0	16.3	17.5	17.2	0.0	0.0	0.0	0.0
MB02	W1941	73-0340	06/19/09	2305.0	17.7	24.3	18.7	352.6	15.3	0.0	0.0
MOB032	W1949	73-0244	06/01/09	46.0	20.1	21.7	21.7	24.5	53.3	0.0	0.0
MOB032	W1949	73-0437	08/10/09	47.5	25.8	27.3	27.3	47.5	100.0	0.0	0.0
MOB032	W1949	73-0582	09/14/09	47.0	20.9	22.0	22.0	40.7	86.7	0.0	0.0
NE11	W1943	73-0249	06/01/09	45.0	18.0	20.3	20.2	4.8	10.6	0.0	0.0
NE11	W1943	73-0343	06/19/09	2304.5	20.3	28.0	21.6	1098.8	47.7	0.0	0.0
NE11	W1943	73-0587	09/14/09	45.0	18.6	19.5	19.2	0.0	0.0	0.0	0.0
NE11	W1943	73-0685	09/25/09	71.5	16.0	19.3	16.1	0.0	0.0	0.0	0.0
NE11	W1943	73-0442	--	--	--	--	--	--	--	--	--
NE12	W1963	73-0242	05/29/09	68.5	17.8	22.6	21.9	16.8	24.6	0.0	0.0
NE12	W1963	73-0435	08/07/09	66.0	22.5	25.8	24.0	66.0	100.0	0.0	0.0
NE12	W1963	73-0580	09/11/09	70.0	18.3	20.7	19.6	6.7	9.6	0.0	0.0
NE12	W1963	73-0346	--	--	--	--	--	--	--	--	--
NE12B	W0568	73-0238	05/29/09	71.5	16.6	19.5	18.6	0.0	0.0	0.0	0.0
NE12B	W0568	73-0338	08/07/09	1174.5	20.7	27.3	21.5	563.2	47.9	0.0	0.0
NE12B	W0568	73-0576	09/11/09	72.0	17.7	18.7	18.3	0.0	0.0	0.0	0.0
NE12B	W0568	73-0687	09/25/09	72.0	16.1	18.8	16.5	0.0	0.0	0.0	0.0
NE12B	W0568	73-0431	--	--	--	--	--	--	--	--	--
NER185	W1935	73-0246	06/01/09	45.5	18.0	19.5	19.3	0.0	0.0	0.0	0.0
NER185	W1935	73-0336	06/19/09	2304.5	20.9	27.4	21.7	1283.1	55.7	0.0	0.0
NER185	W1935	73-0439	08/10/09	47.5	22.6	24.0	24.0	47.5	100.0	0.0	0.0
NER185	W1935	73-0584	09/14/09	47.0	18.9	19.7	19.7	0.0	0.0	0.0	0.0
NR01	W1933	73-0236	05/29/09	72.0	17.0	20.6	19.8	4.6	6.3	0.0	0.0
NR01	W1933	73-0345	08/07/09	1131.0	21.0	27.4	22.0	569.9	50.4	0.0	0.0
NR01	W1933	73-0429	08/07/09	69.5	21.7	23.7	22.3	69.5	100.0	0.0	0.0
NR01	W1933	73-0574	09/11/09	72.0	18.1	19.8	19.2	0.0	0.0	0.0	0.0
NR03	W1934	73-0245	06/01/09	45.5	17.8	18.3	18.2	0.0	0.0	0.0	0.0
NR03	W1934	73-0438	08/10/09	47.5	22.8	23.8	23.8	47.5	100.0	0.0	0.0
NR03	W1934	73-0583	09/14/09	46.5	18.8	19.2	19.2	0.0	0.0	0.0	0.0
NR03	W1934	73-0337	--	--	--	--	--	--	--	--	--
PC01	W1948	73-0237	05/29/09	72.0	15.8	20.5	20.0	3.3	4.6	0.0	0.0
PC01	W1948	73-0430	08/07/09	68.5	18.9	21.7	19.7	14.5	21.2	0.0	0.0
PC01	W1948	73-0575	09/11/09	72.0	17.1	19.8	18.6	0.0	0.0	0.0	0.0
POB040	W0566	73-0239	05/29/09	68.5	15.4	19.5	19.5	0.0	0.0	0.0	0.0
POB040	W0566	73-0432	08/07/09	0.0	--	--	--	--	--	--	--
POB040	W0566	73-0577	09/11/09	70.0	16.5	19.5	18.5	0.0	0.0	0.0	0.0
POB040	W0566	73-0686	09/25/09	71.5	13.8	16.5	14.8	0.0	0.0	0.0	0.0
PQ01	W0559	73-0241	05/29/09	68.5	17.4	20.1	19.8	1.3	1.8	0.0	0.0
PQ01	W0559	73-0434	08/07/09	66.5	22.9	25.5	24.0	66.5	100.0	0.0	0.0
PQ01	W0559	73-0579	09/11/09	70.0	18.2	20.7	19.5	7.2	10.3	0.0	0.0
PTB047	W0573	73-0247	06/01/09	45.5	17.0	19.8	19.8	0.0	0.0	0.0	0.0

Table 12. 2009 MassDEP DWM Neponset River Watershed unattended probes temperature data – rivers.

Unique ID	Station ID	OWMID	Start Date	Deployment Duration (Hours)	Average (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)	Percentage of Time > 28.3 deg. C (%)
PTB047	W0573	73-0440	08/10/09	48.5	21.6	24.8	24.8	43.9	90.5	0.0	0.0
PTB047	W0573	73-0585	09/14/09	47.0	17.9	19.3	19.3	0.0	0.0	0.0	0.0
PU03	W1953	73-0339	06/19/09	2304.5	18.4	25.4	19.4	547.7	23.8	0.0	0.0
TH02	W0551	73-0234	05/29/09	71.5	12.5	15.3	15.1	0.0	0.0	0.0	0.0
TH02	W0551	73-0344	06/19/09	2304.0	15.7	21.1	16.9	13.0	0.6	0.0	0.0
TH02	W0551	73-0427	08/07/09	70.0	15.2	17.3	16.0	0.0	0.0	0.0	0.0
TH02	W0551	73-0572	09/11/09	71.5	15.0	16.5	16.3	0.0	0.0	0.0	0.0
TK01	W1937	73-0252	06/01/09	44.5	13.4	15.3	15.3	0.0	0.0	0.0	0.0
TK01	W1937	73-0341	06/19/09	2304.5	15.5	22.2	17.1	12.9	0.6	0.0	0.0
TK01	W1937	73-0445	08/10/09	44.0	17.0	19.9	19.9	0.0	0.0	0.0	0.0
TK01	W1937	73-0590	09/14/09	45.0	14.1	16.1	15.8	0.0	0.0	0.0	0.0
UQ01	W0579	73-0248	06/01/09	45.5	12.7	13.7	13.7	0.0	0.0	0.0	0.0
UQ01	W0579	73-0586	09/14/09	46.5	15.6	16.6	16.6	0.0	0.0	0.0	0.0
UQ01	W0579	73-0688	09/25/09	72.0	14.8	15.9	15.4	0.0	0.0	0.0	0.0
UQ01	W0579	73-0441	--	--	--	--	--	--	--	--	--
UT01	W1952	73-0250	06/01/09	44.5	20.6	22.1	22.1	29.6	66.6	0.0	0.0
UT01	W1952	73-0443	08/10/09	44.5	26.1	28.6	28.6	44.5	100.0	3.1	7.0
UT01	W1952	73-0588	09/14/09	44.0	20.9	22.7	22.7	30.9	70.2	0.0	0.0

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APPENDIX 1: 2009 DATA SYMBOLS AND QUALIFIERS

Excerpted from: Water Quality Data Validation Report for Year 2009 Project Data (CN 362.0)

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