

Record Number: 25550
Author, Monographic: St-Hilaire, A.//Massicotte, B.//Bobée, B.//Ouarda, T. B. M. J.//Arsenault, É.//Chiasson, A.
Author Role:
Title, Monographic: Summary of water quality analyses Peticodiac watershed
Translated Title:
Reprint Status:
Edition:
Author, Subsidiary:
Author Role:
Place of Publication: Québec
Publisher Name: INRS-Eau
Date of Publication: 2001
Original Publication Date: Juin 2001
Volume Identification:
Extent of Work: iv, 98
Packaging Method: pages incluant 3 appendices
Series Editor:
Series Editor Role:
Series Title: INRS-Eau, rapport de recherche
Series Volume ID: 588 b
Location/URL:
ISBN: 2-89146-489-3
Notes: Rapport annuel 2000-2001
Abstract: En collaboration avec Roche Ltée
Numéro de rapport et ISBN demandés par Martyne Charbonneau et fournis par Jean-Daniel le
24 juillet 2002
15.00\$
Call Number: R000588 b
Keywords: rapport/ ok/ dl

**SUMMARY
OF WATER QUALITY ANALYSES
PETITCODIAC WATERSHED**

Scientific Report R-588b

ROCHE LTÉE, GROUPE-CONSEIL
INRS-EAU

Summary of water quality analyses

Petitcodiac Watershed

REPORT

JUNE 2001



N/Réf. : 21654-001

3075, ch. des Quatre-Bourgeois
Sainte-Foy (Québec) G1W 4Y4
Téléphone :
(418) 654-9600
Télécopieur :
(418) 654-9699

INRS-Eau

Chaire en hydrologie statistique
2800 rue Einstein, C.P. 7500
Ste-Foy, Québec,
Canada G1V 4C7

TABLE OF CONTENTS

LIST OF TABLES.....	II
LIST OF FIGURES	III
PROJECT TEAM	IV
1. INTRODUCTION.....	1
1.1 Context.....	1
1.2 Objectives	1
2. METHODOLOGY	3
3. RESULTS	4
3.1 Jones Lake	6
3.2 Humphreys Brook	7
3.4 Memramcook River	7
3.5 Fox Creek	12
3.6 Jonathan Creek	12
3.7 Rabbit Brook	12
3.8 Mill Creek	12
3.9 West Branch Halls Creek.....	19
3.10 Other tributaries with relatively high bacterial counts	19
3.11 Other tributaries with relatively high organic parameters	19
3.12 Relatively pristine tributaries.....	23
3.13 Seasonal variability	23
4. LAND AND WATER USES	27
5. CONCLUSION.....	29
6. REFERENCES.....	30

Appendices

- Appendix 1 Inventory of point and non point pollution sources in the Petitcodiac watershed
- Appendix 2 Water quality data from the Petitcodiac watershed, 1975-1999
- Appendix 3 List of water quality sampling stations

LIST OF TABLES

Table 1	General appreciation of water quality in the different water bodies of the Petitcodiac watershed	5
---------	--	---

LIST OF FIGURES

Figure 1	Total coliform concentrations for Jones Lake (1998)	8
Figure 2	Lead (Pb) concentrations in Jones Lake (1997-2000)	9
Figure 3	Iron concentrations in Humphreys Brook.....	10
Figure 4	Zinc concentrations in the Memramcook River, 1997-2000.....	11
Figure 5	Total coliform concentrations and E. coli concentrations in Fox Creek between 1998-2000	13
Figure 6	E. coli concentrations in Jonathan Creek, 1999-2000.....	15
Figure 7	Total coliform concentrations at two stations (Mapleton road and near the mouth) during 1998	17
Figure 8	Aluminium (Al) and Iron (Fe) concentrations in Mill Creek, 1997-2000	18
Figure 9	E. coli concentrations in the West Branch of Halls Creek, 1998-2000	20
Figure 10	Total Coliform concentrations at five stations in the Petitcodiac River, 1998.....	21
Figure 11	Map of the Petitcodiac drainage basin showing regional distribution of the four categories of water quality	25

PROJECT TEAM

PETITCODIAC WATERSHED MONITORING GROUP:

Éric Arseneau, M.A. Coordinator
Alyre Chiasson, Ph.D. Technical Advisor

ROCHE LTÉE, GROUPE-CONSEIL:

Bernard Massicotte, M.Sc. Biologist

INRS-EAU, CHAIR IN STATISTICAL HYDROLOGY:

Bernard Bobée, Ph.D. Director
Taha Ouarda, Ph.D. Professor
André St-Hilaire, Ph.D. Research Associate

Reference to be cited:

St-Hilaire, A., B. Massicotte, A., B. Bobée, T. Ouarda, E. Arseneau, A. Chiasson.
2001. Petitcodiac Watershed Monitoring: Summary of water quality analyses.
Report produced by Roche Ltée, Groupe-conseil and INRS-Eau on behalf of the
Petitcodiac Watershed Monitoring Group. 30 p. + appendices.

1. INTRODUCTION

1.1 CONTEXT

The Petitcodiac River is located in Southeastern New Brunswick. It has a drainage basin area of 1999 km², and is home to approximately 120 000 people, most of whom live in the Greater Moncton area.

One of the main features of this river system is the presence of a causeway. It was built in 1968 when it became obvious that the Gunningsville Bridge could not sustain the growing traffic between Moncton and Riverview. The presence of the causeway has changed the hydrodynamic conditions in the river system. A debate on how to best manage these changes and their effects has been ongoing for a number of years. For this reason, a lot of attention has been devoted to this river system by the media, various government departments (both federal and provincial) and the scientific community in recent years.

In 1997, the Petitcodiac Watershed Monitoring Group (PWMG) was founded with a mandate to establish and support a network of volunteers who will conduct long-term water quality monitoring in the Petitcodiac watershed (Frenette, 2000). Since then, water quality data has been gathered by the PWMG, in partnership with the New Brunswick Department of the Environment and Local Government (DELG) at various locations in the watershed. The PWMG has also compiled historical water quality data. These past and more recent data allow for spatial and temporal analysis of the water quality in the Petitcodiac drainage basin.

The Petitcodiac Watershed Monitoring Group has therefore hired Roche Ltd, with the assistance of the Chair in statistical hydrology (INRS-EAU, Université du Québec) to produce a report on water quality data measured on the Petitcodiac watershed.

1.2 OBJECTIVES

A first technical report (St-Hilaire et al. 2001) was produced with the objective of providing a statistical study of the water quality and hydrology of the Petitcodiac River and some of its tributaries. This report provided a comparison of recent water quality

analyses with historical (1975-1977) data. In order to facilitate the interpretation of water quality data, an analysis of the prevailing meteorological (i.e. rain and air temperature) and hydrological (i.e. freshwater flows) conditions was also included.

This second report focuses on recent (1997-2000) information and provides a general description of water quality in each of the sampled rivers and tributaries of the Petitcodiac drainage basin.

2. METHODOLOGY

In a previous report, St-Hilaire et al. (2001) calculated mean values of water quality parameters for each station sampled by the PWMG. From these data and other analyses detailed in the first report, a list of tributaries and rivers with potential water quality problems was established.

When possible, the criterion for comparison was a mean value exceeding the Canadian Water Quality Guidelines (CWQG). This was not the only criterion, however. Although many values are above the Canadian Water Quality Guidelines, parameters were not selected based solely on these guidelines because they don't exist for all variables. For each water body, the parameters indicated are those that demonstrate high values compared to values generally observed in the watershed from 1997 to 2000. These values are considered as elevated relative to the mean of measurements taken on the watershed.

Water bodies have been classified on a relative basis using an arbitrary code ranging from 1 (best water quality) to 4 (worst). The codes have been attributed based on the number of elevated parameters and on their average value during the 1997-2000 period. The codes have been attributed as follows :

- ↳ 1 : average values all below CWQG, no parameter in elevated concentrations compared to the regional values
- ↳ 2 : one parameter above CWQG or above regional average
- ↳ 3 : five or less parameters above CWQG or regional values
- ↳ 4 : more than five parameters above the CWQG or regional values

3. RESULTS

Table 1 presents the results of the classification of the waterbodies and indicates the parameters that were found in elevated concentrations in each case. The table also presents preliminary data on point and non point pollution sources located so far in each waterbodies (number of liquid effluents, agriculture sites and bank erosion sites). It should be noted that this inventory is in progress and has not been completed yet for all waterbodies. This partial information is nonetheless presented as it provides basic information about possible causes of water quality degradation in each waterbody. Maps indicating the location of these point and non point pollution sources within the various subwatersheds are presented in appendix A.

Jones Lake, Humphreys Brook, Rabbit Brook, Fox Creek and the Memramcook River are areas of concern (category 4 in Table 1). In these sub-basins, high bacterial counts, as well as elevated aluminium and nutrient concentrations are indicative of water quality degradation.

At the other end of the spectrum, the first category in Table 1 includes the more pristine sites, for which none of the water quality parameters measured showed concentrations greater than the CWQG or greater than the mean concentration for the watershed. This category includes Little River, the North-West Branch of Halls Creek, Pollett River and Prosser Brook.

A description of temporal and, when available, spatial trends is given for individual rivers and tributaries in the following subsections.

Table 1 General appreciation of water quality in the different water bodies of the Petitcodiac watershed

Note : For each watershed, the parameters indicated are those that demonstrate elevated values compared to the Canadian Water Quality Guidelines or to the average values observed in the watershed.

WATER BODY	CODE	LAND USE STATISTICS			PARAMETER	UNIT	MEAN VALUE 1997-2000 (NUMBER OF OBSERV.)
		NUMBER OF SITES LOCATED					
		Agriculture	Erosion	Effluents			
Anagance River	2				Iron	mg/L	0,82 (34)
Bennett Brook	2				Total Coliforms	MPN/100 mL	3574 (9)
Fox Creek	4	3			Aluminium	mg/L	0,42 (17)
					E coli	MPN/100 mL	1435 (17)
					Iron	mg/L	1,15 (17)
					Nitrates	mg/L	0,33 (17)
					Lead	µg/L	1,35 (17)
					Total Coliforms	MPN/100 mL	5686 (9)
					Total Kjeldahl nitrogen	mg/L	0,63 (17)
					Total organic carbon	mg/L	13,3 (17)
					Ortho-phosphates	mg/L	0,06 (17)
					Turbidity	NTU	16,8 (17)
Halls Creek	2	2'	8'	27'	Nitrates	mg/L	0,35 (2)
					Turbidity	NTU	9,2 (2)
Humphreys Brook	4		7	23	Aluminium	mg/L	0,27 (26)
					Fecal coliforms	CFU/100 mL	350 (18)
					Iron	mg/L	0,94 (26)
					Ammonia	mg/L	0,09 (26)
					Lead	µg/L	1,48 (26)
					Total Coliforms	MPN/100 mL	5181 (18)
					Total Kjeldahl nitrogen	mg/L	0,62 (26)
					Total organic carbon	mg/L	12,9 (26)
					Ortho-phosphates	mg/L	0,05 (26)
					Turbidity	NTU	8,28 (26)
Jonathan Creek	2		1	7	Fecal coliforms	CFU/100 mL	668 (9)
Jones Lake	4				Aluminium	mg/L	0,73 (16)
					E coli	MPN/100 mL	1753 (16)
					Fecal coliforms	CFU/100 mL	539 (9)
					Iron	mg/L	1,70 (16)
					Ammonia	mg/L	0,04 (16)
					Lead	µg/L	3,89 (16)
					Total Coliforms	MPN/100 mL	5773 (9)
					Total Kjeldahl nitrogen	mg/L	0,85 (16)
					Total organic carbon	mg/L	10,3 (16)
					Ortho-phosphates	mg/L	0,10 (16)
					Turbidity	NTU	26,4 (16)
					Zinc	µg/L	19,2 (16)

WATER BODY	CODE	LAND USE STATISTICS			PARAMETER	UNIT	MEAN VALUE 1997-2000 (NUMBER OF OBSERV.)
		NUMBER OF SITES LOCATED					
		Agriculture	Erosion	Effluents			
Little River	1				(None)		
Memramcook River	4	3	2		Aluminium	mg/L	0,30 (14)
					Iron	mg/L	1,93 (14)
					Ammonia	mg/L	0,05 (14)
					Total Coliforms	MPN/100 mL	3656 (6)
					Total Kjeldahl nitrogen	mg/L	0,59 (14)
					Total organic carbon	mg/L	17,9 (14)
					Ortho-phosphates	mg/L	0,07 (14)
					Zinc	µg/L	74,3 (14)
Mill Creek	3		1		Aluminium	mg/L	0,21 (16)
					Iron	mg/L	1,14 (16)
					Total organic carbon	mg/L	15,6 (16)
North Branch Halls Creek	1	2 ¹	8 ¹	27 ¹	(None)		
North River	2				Total organic carbon	mg/L	10,9 (76)
Petitcodiac River	2			4	Total Coliforms	MPN/100 mL	2679 (50)
Pollett River	1				(None)		
Prosser Brook	1				(None)		
Rabbit Brook	4				E coli	MPN/100 mL	4375 (25)
					Fecal coliforms	CFU/100 mL	1733 (18)
					Iron	mg/L	0,76 (25)
					Ammonia	mg/L	0,76 (25)
					Lead	µg/L	0,89 (25)
					Total Coliforms	MPN/100 mL	14567 (18)
					Total Kjeldahl nitrogen	mg/L	0,59 (25)
					Ortho-phosphates	mg/L	0,06 (25)
					Turbidity	NTU	13,3 (25)
					Zinc	µg/L	19,0 (25)
Turtle Creek	2				Ammonia	mg/L	0,08 (9)
Weldon Creek	1				(None)		
West Branch Halls Creek	3	2 ¹	8 ¹	27 ¹	E coli	MPN/100 mL	2209 (23)
					Fecal coliforms	CFU/100 mL	390 (18)
					Nitrates	mg/L	1,19 (23)
					Total Coliforms	MPN/100 mL	5101 (18)
					Turbidity	NTU	11,5 (23)

¹ Values are for the entire Halls Creek watershed.

3.1 JONES LAKE

Jones Lake showed high mean concentrations of bacteria (*E.coli*, Fecal Coliforms and Total Coliforms). Mean Total Coliforms in the lake was calculated to be 5573 MPN/100mL. Figure 1 shows the evolution of coliform concentrations during the summer of 1998. It shows the Total Coliform (TC) concentrations increasing from

1660 MPN/100mL in June, just after the spring freshet, to 12030 MPN/100mL in October.

Heavy metals, such as Lead (Pb) are still a cause for concern in Jones Lake. Although the extreme values ($> 20 \mu\text{g/L}$) measured in 1977 (see Figure 2) were not found in more recent samples, the overall average ($3.89 \mu\text{g/L}$) remains higher than the CWQG ($1 \mu\text{g/L}$).

3.2 HUMPHREYS BROOK

Humphrey's Brook was also characterised by high bacterial counts (mean Total Coliform concentrations of 5181 MPN/100mL) and high heavy metal concentrations such as Al ($0.24 \mu\text{g/L}$). The mean iron (Fe) concentration in Humphreys Brook (0.94 mg/L) was nearly twice the mean concentration for the entire Petitcodiac watershed (0.49 mg/L). A very high measurement (7.9 mg/L) measured at station 1 in Humphreys Brook on July 15th, 1997 is the main reason for such a high mean value (see Figure 3).

3.4 MEMRAMCOOK RIVER

Mean Total Coliform concentrations calculated for the Memramcook River (3656 MPN/100mL) were slightly higher than the mean for the entire drainage basin (3430 MPN/100mL). Metals such as zinc (Zn) and iron (Fe) were found in relatively high concentrations. The mean concentration of Zn was $74.3 \mu\text{g/L}$, which is more than twice the CWQG maximum standard. This high mean concentration was caused by one sample with a very high Zn concentration ($906 \mu\text{g/L}$, perhaps an outlier value), taken on September 14th, 1997 (see Figure 4). Aluminium (Al), was also measured in high concentrations in the Memramcook River (mean value of 0.3 mg/L). The CWQG standard for this metal is 0.1 mg/L .

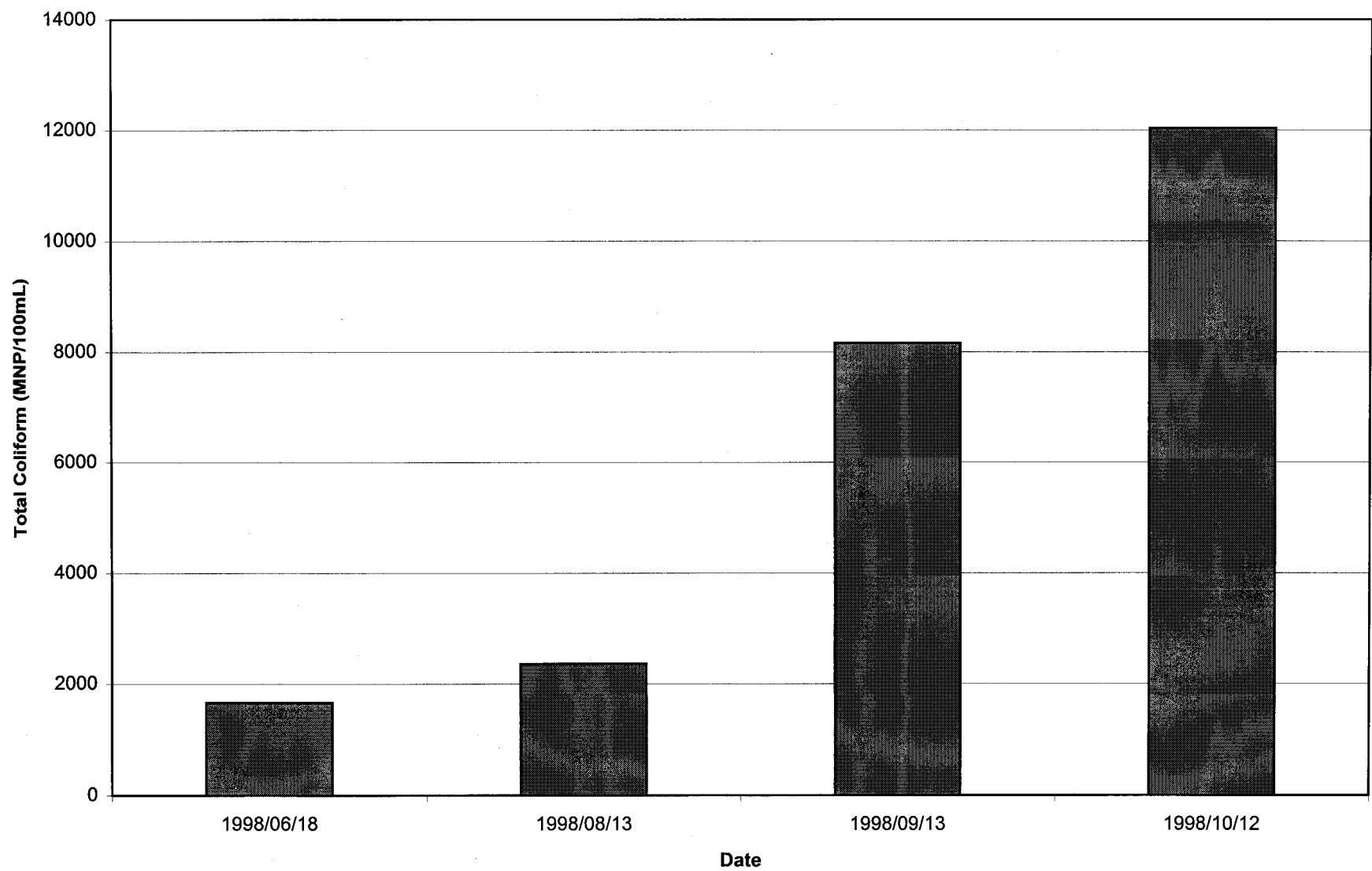


Figure 1. Total coliform concentrations for Jones lake (1997-2000).

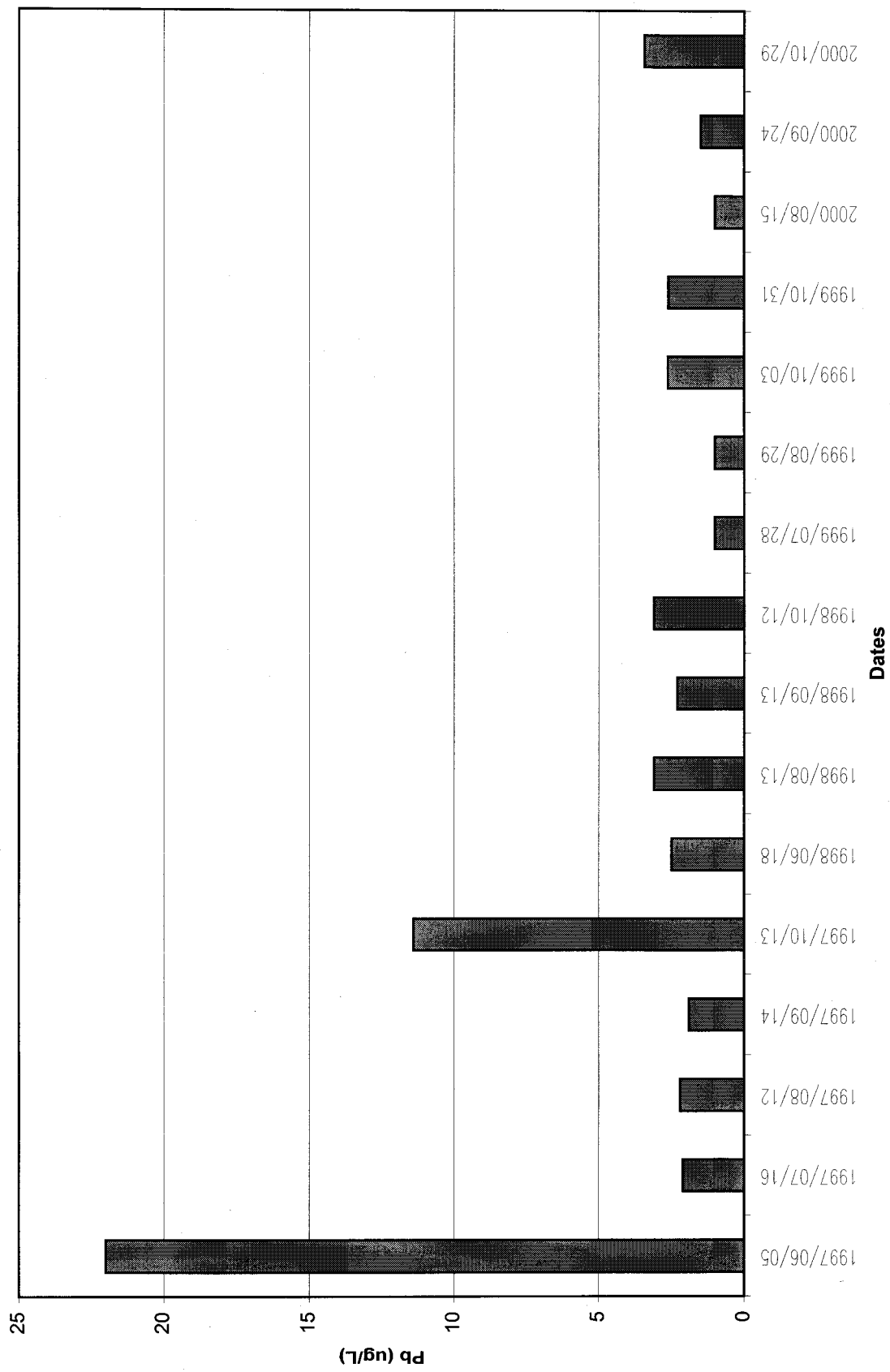
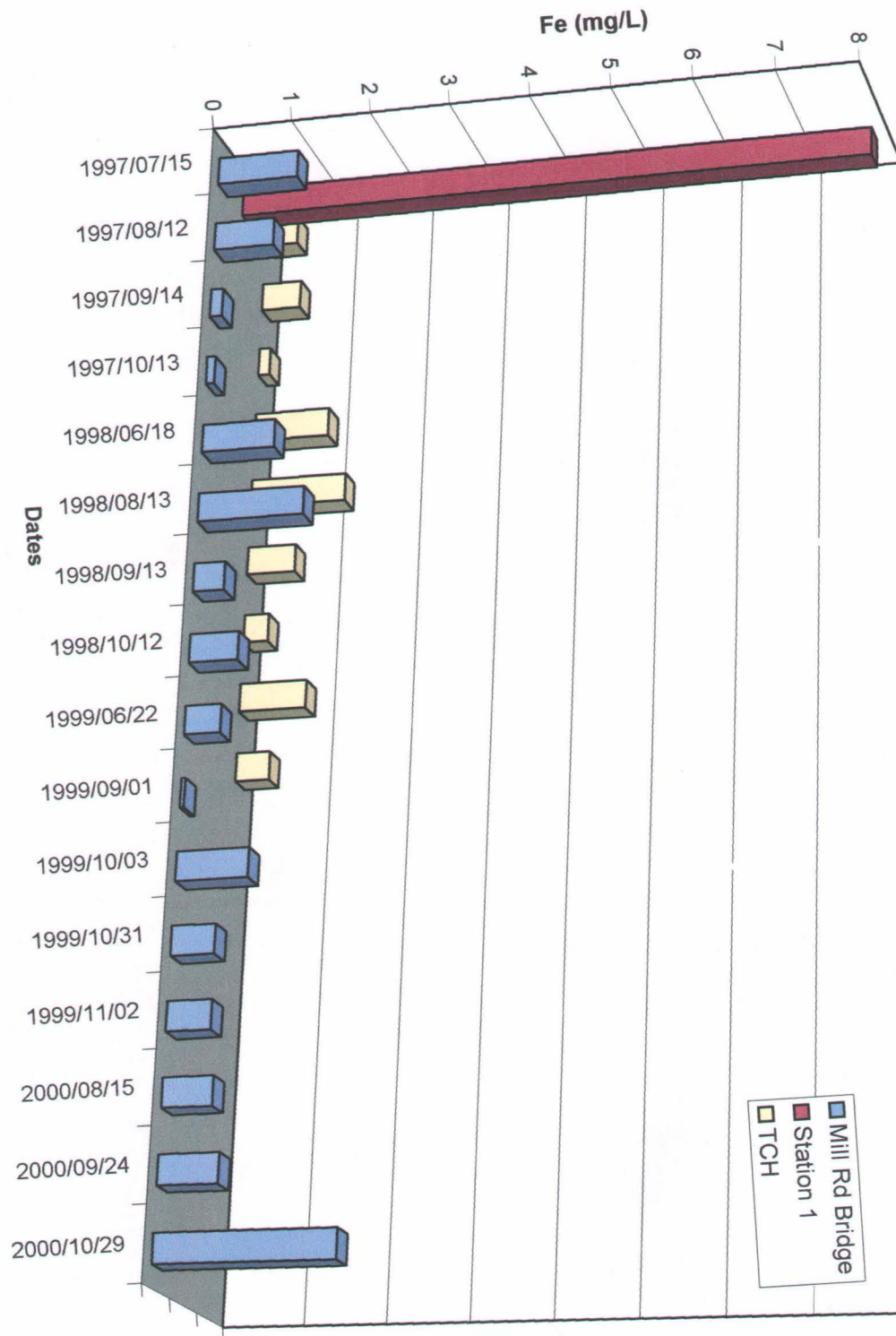


Figure 2. Lead (Pb) concentrations in Jones Lake (1997-2000)

Figure 3. Iron concentrations in Humphreys Brook.



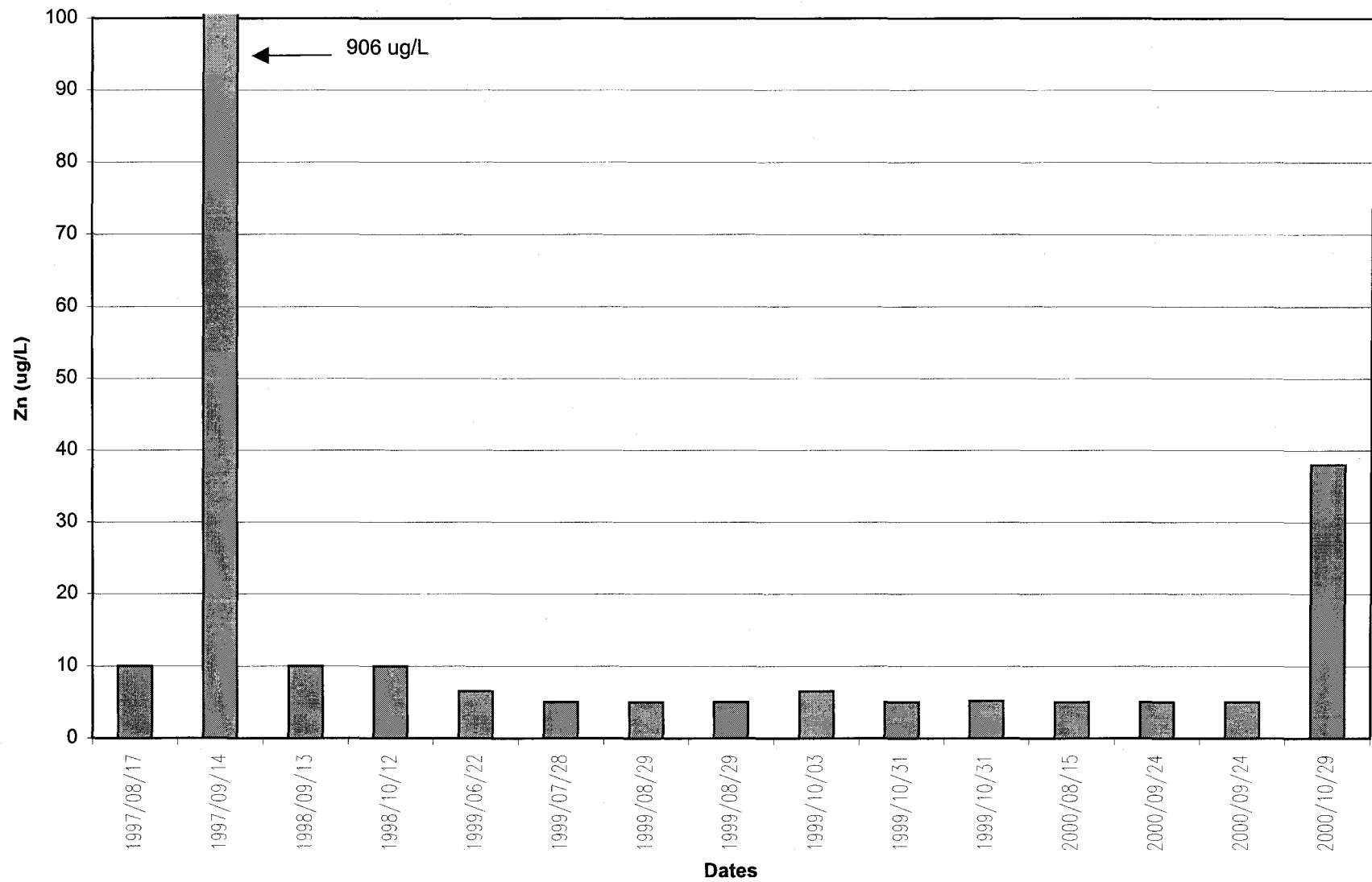


Figure 4. Zinc concentrations in the Memramcook River, 1997-2000.

3.5 FOX CREEK

Fox Creek also showed high concentrations of coliform (*E. coli* and Total Coliform), with Total Coliform values reaching 24190 MPN/100mL on October 12th, 1998 (Figure 5). *E. coli* concentrations were also high during the summer period (August and September) of 2000 (Figure 5). Mean lead concentration in Fox Creek was calculated to be 1.35 µg/L, which is a value exceeding the CWQG of 1.0 µg/L.

3.6 JONATHAN CREEK

High bacterial concentrations in Jonathan Creek remain a cause for concern (Figure 6). A large number of samples taken in 1999 showed high concentrations (i.e. > 648 MPN/100mL, which is the watershed mean) of *E. coli*. There appears to be a decreasing trend in the mean concentrations of *E. coli*, as the high values measured in 1999 were not found as often in 2000 (Figure 6).

3.7 RABBIT BROOK

Total Coliform counts were only measured in 1998 in Rabbit Brook (Figure 7). Both stations (i.e. near Mapleton Road and near the mouth of the brook) showed high concentrations (> 24190 MNP/100mL) throughout the summer of that year, but decreased in the fall (Figure 7). Metal concentrations (Fe, Zn) were generally lower than the CWQG standard but higher than the mean for the entire drainage basin.

3.8 MILL CREEK

Aluminium (Al) and iron (Fe) mean concentrations in Mill Creek both exceeded the CWQG standard. Aluminium concentration reached a maximum of 0.95 mg/L in October 2000. It should be noted that, for the same sample, Suspended sediment concentration and turbidity were also very high. It is possible that some of the sediment may have contaminated the water sample. The CWQG standard for Al concentration is 0.1 mg/L. The maximum measured iron concentration was 2.1 mg/L, nearly seven times the CWQG standard (Figure 8).

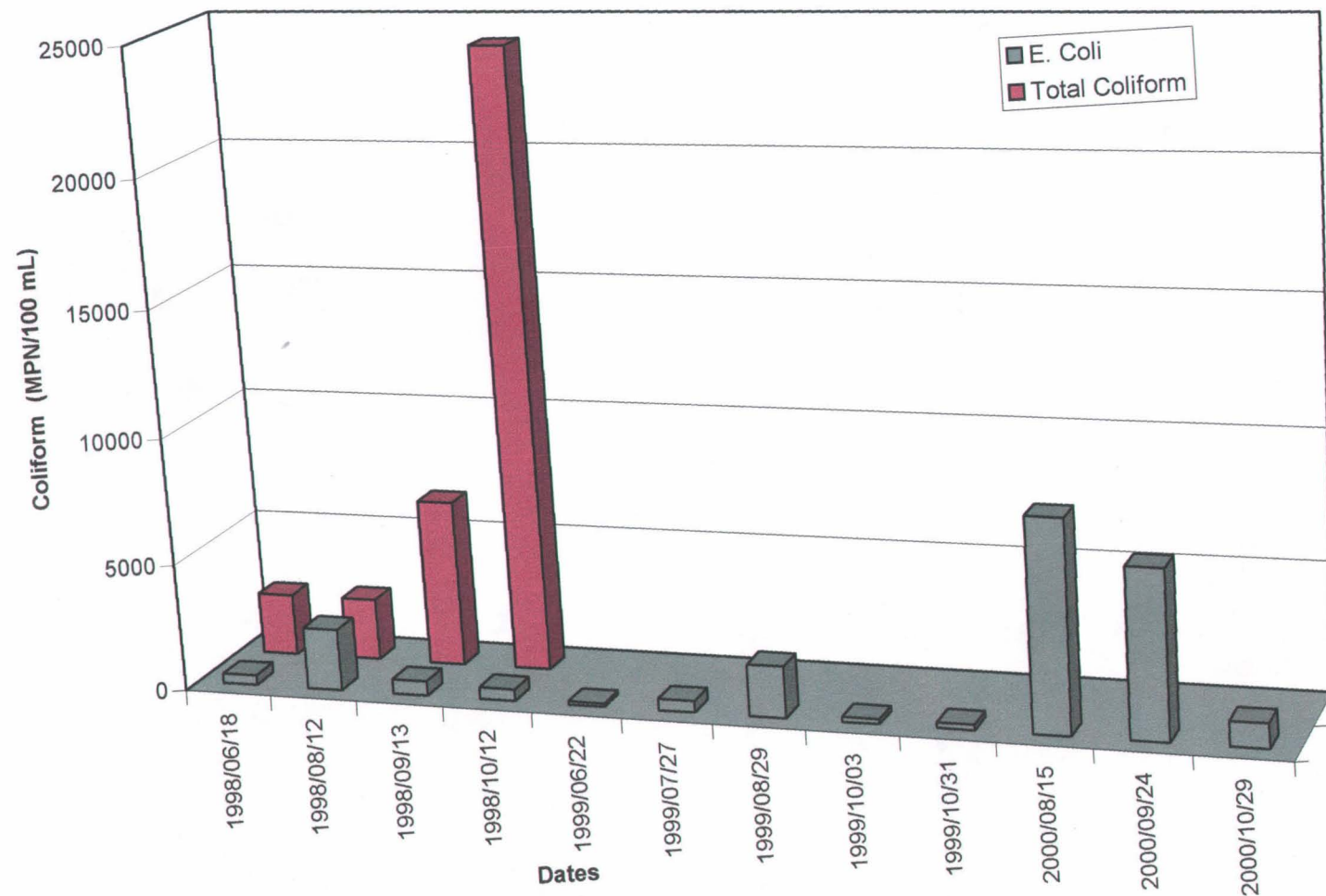


Figure 5. Total coliform concentrations and *E. Coli* concentrations in Fox Creek between 1998-2000.



Figure 6. E. Coli concentrations in Jonathan Creek, 1999-2000

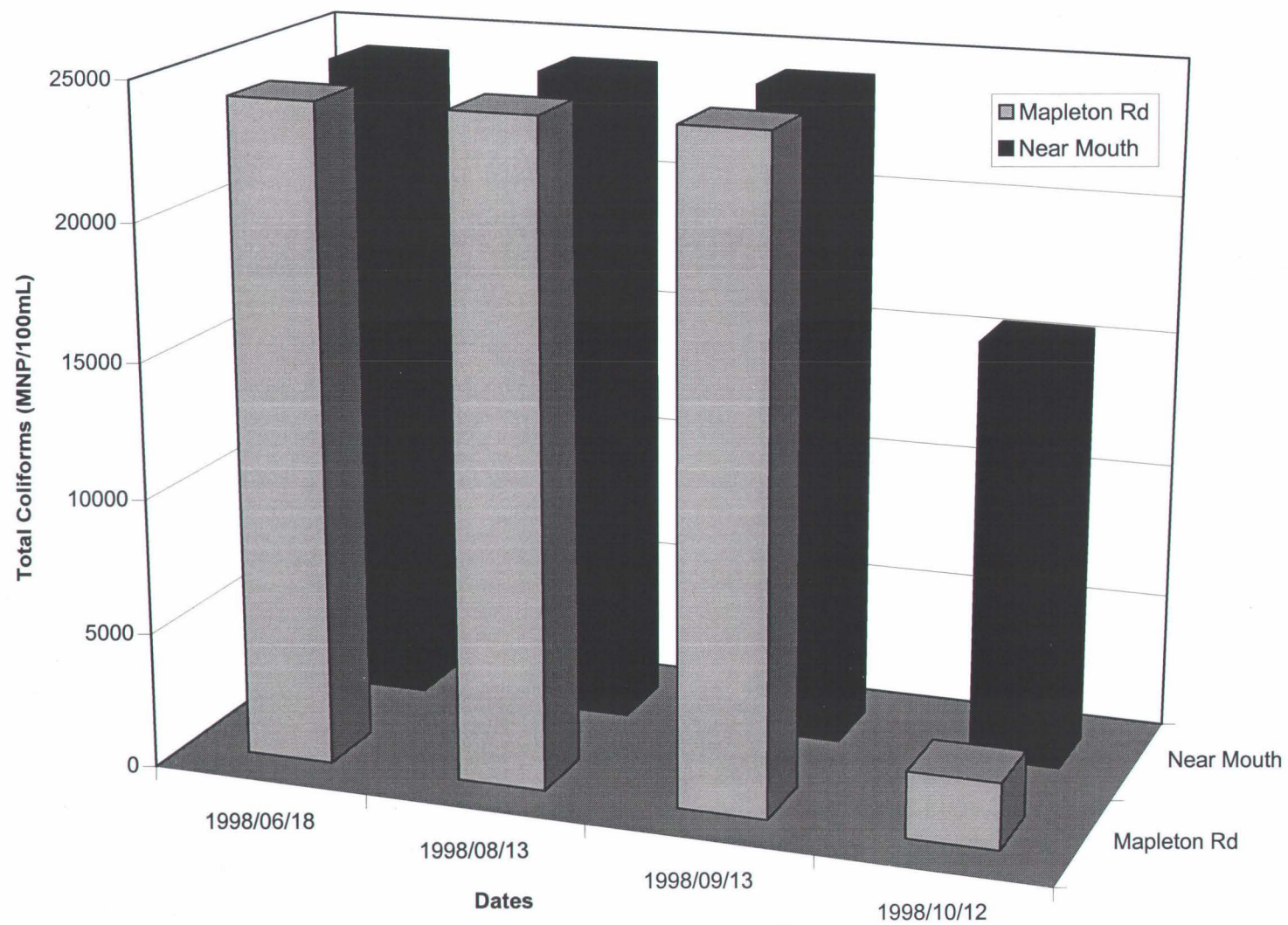


Figure 7. Total coliform concentrations at two stations (Mapleton road and near the mouth) during 1998.

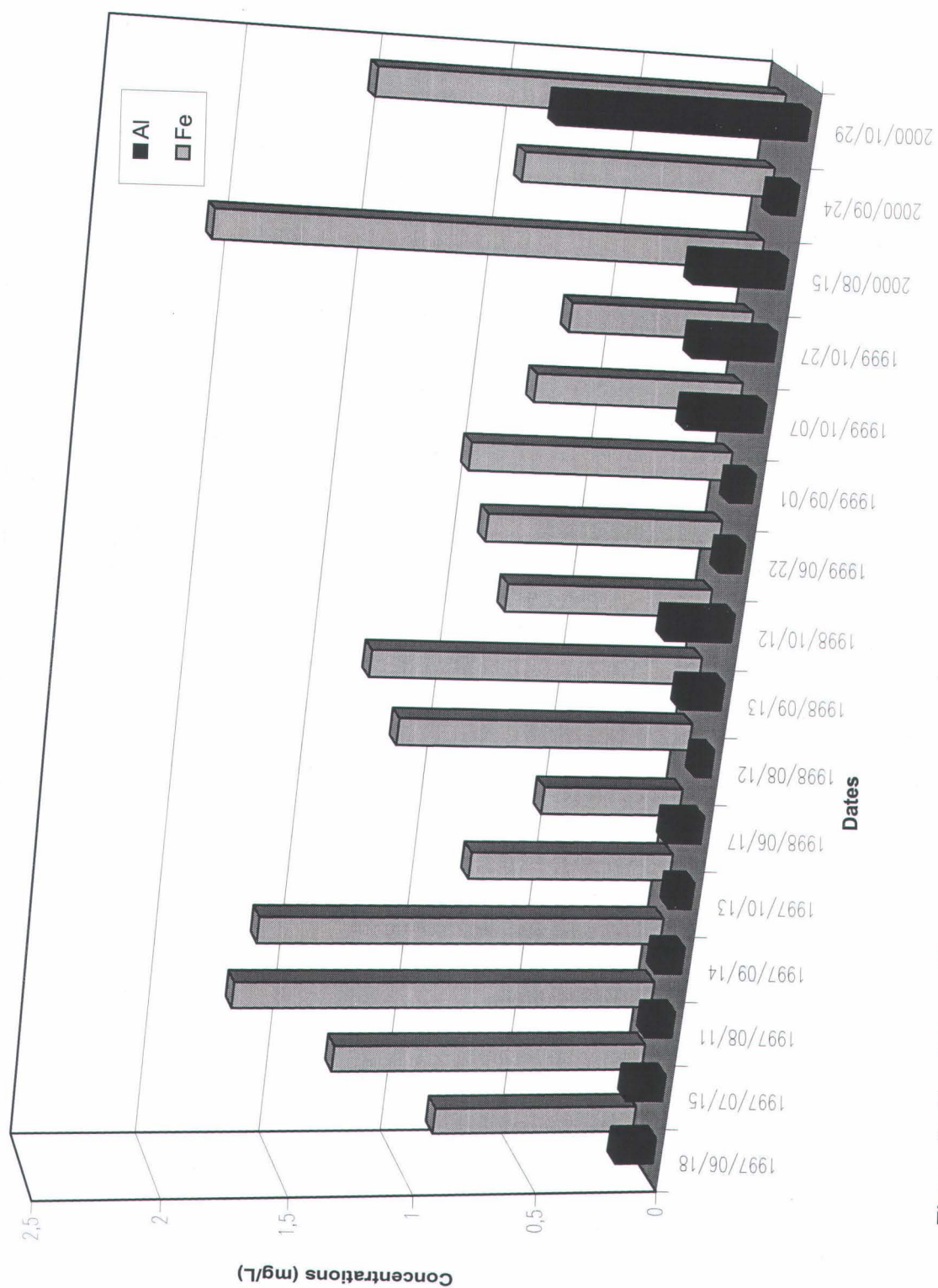


Figure 8. Aluminium (Al) and Iron (Fe) concentrations in Mill Creek, 1997-2000.

3.9 WEST BRANCH HALLS CREEK

This portion of Halls Creek was shown to have relatively high coliform counts (*E. coli*, Fecal Coliform and Total Coliform). Two stations (Briardale Street and Wheeler Boulevard) were sampled in Halls Creek in 1998 and 1999, while only the Wheeler Boulevard station was sampled in 2000 (Figure 9). In 1999, the Briardale Street station showed higher *E. coli* concentrations than the Wheeler Boulevard station. In 2000, the Wheeler Boulevard station showed very high *E. coli* counts, reaching a maximum value of 24190 MPN/100mL on September 24th of that year. Nitrates were also found in high concentrations in this tributary. The mean concentration of NO₃ (1.2 mg/L) was nearly 10 times greater than the average for the watershed (0.15 mg/L).

3.10 OTHER TRIBUTARIES WITH RELATIVELY HIGH BACTERIAL COUNTS

Stations on the Petitcodiac River showed relatively high Total coliform counts, with a mean Total Coliform concentration of 2679 MPN/100mL. In 1998, the highest Total Coliform concentration (24190 MPN/100mL) was measured at the route 905 station, in June. In September and October 1998, the highest concentrations were measured at the TCH Bridge station (Figure 10). Bennett Brook also showed relatively high Total Coliform concentrations, with a mean of 3574 MPN/100mL. Measurements were only taken in 1998 and reached a maximum value of 17330 MPN/100mL in October of that year.

3.11 OTHER TRIBUTARIES WITH RELATIVELY HIGH ORGANIC PARAMETERS

In the North River Total Organic Carbon (TOC, 11 mg/L) was found to be higher than the mean concentration for the watershed (8.2 mg/L), although not as high as some of the tributaries considered to be polluted (e.g. TOC in Fox Creek = 13.3 mg/L, TOC in Humphreys Brook = 12.9 mg/L).

Halls Creek showed relatively high Nitrate (NO₃) concentration (0,35 mg/L), compared to the mean watershed concentration of 0.15 mg/L. This mean concentration is based only on two measurements taken in 1999.

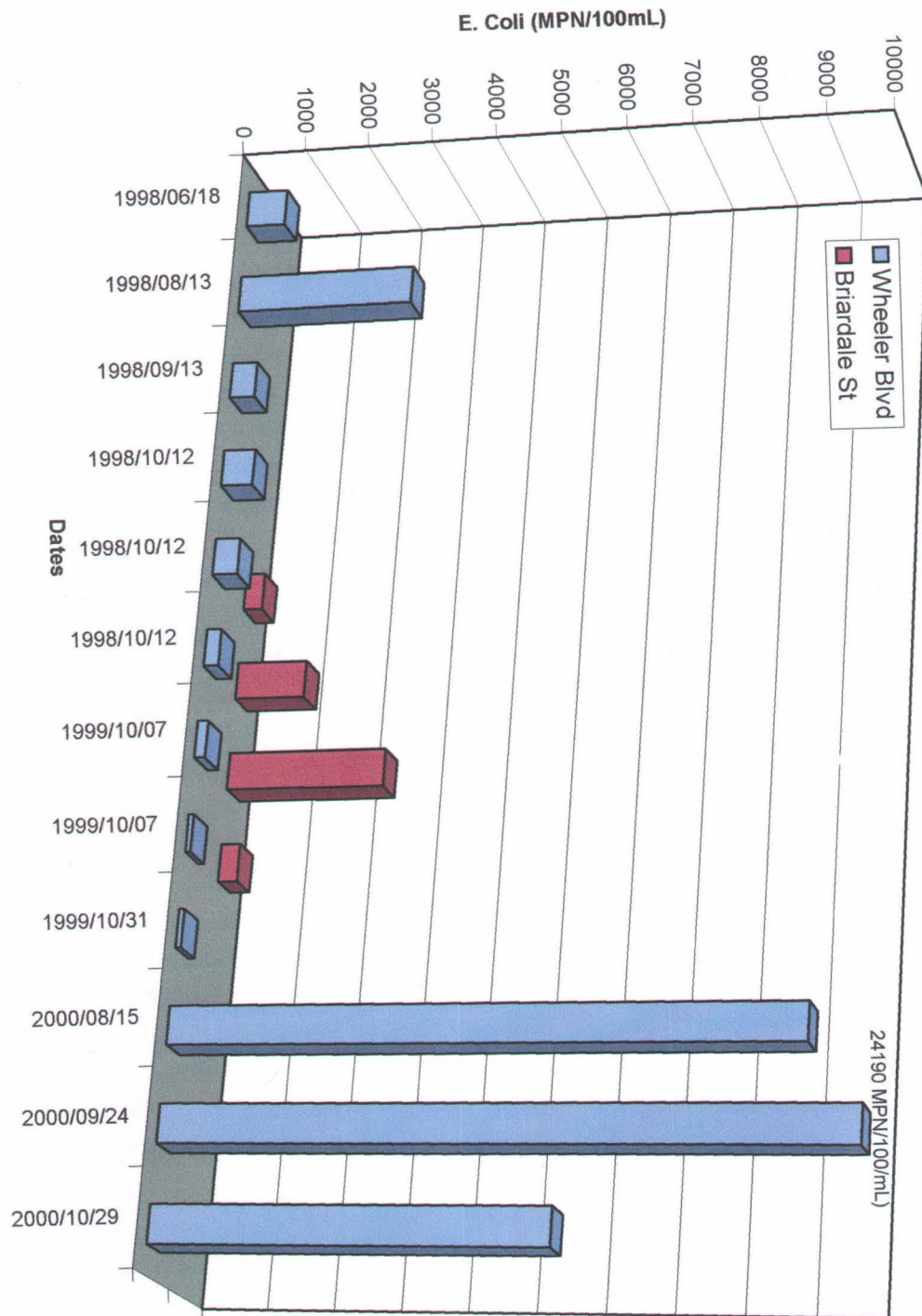


Figure 9. E. Coli concentrations in the West Branch of Hall's Creek, 1998-2000.

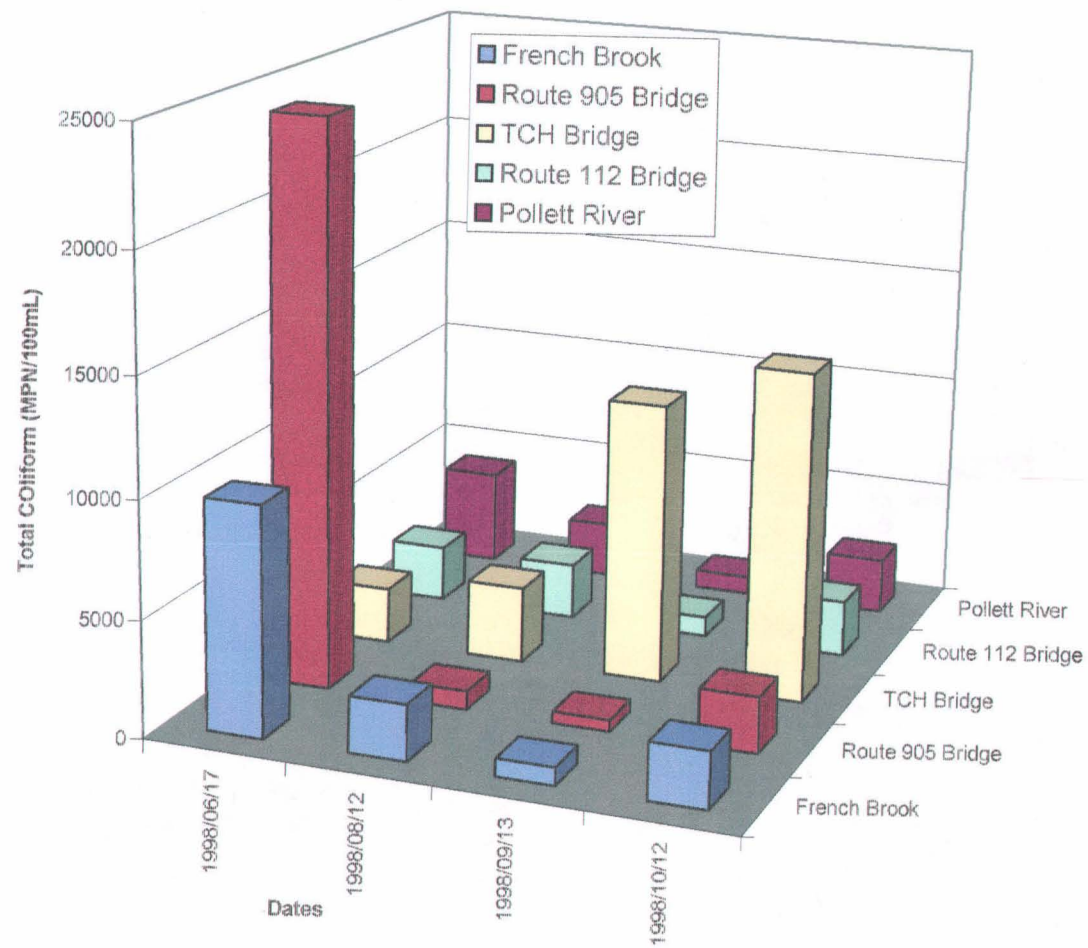


Figure 10. Total Coliform concentrations at five stations in the Petitcodiac River, 1998.

Turtle Creek was characterised by a mean Ammonia concentration of 0.08 mg/L, which is lower than the CWQG of 1.37 mg/L, but higher than the mean watershed concentration of 0.03 mg/L.

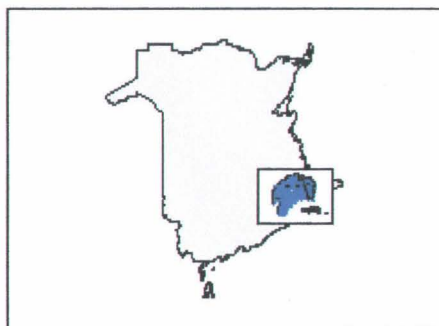
3.12 RELATIVELY PRISTINE TRIBUTARIES

Data gathered on a number of rivers and brooks in the Petitcodiac River did not show any water quality degradation. They include Little River, the North branch of Halls Creek, Prosser Brook, Pollett River, and Weldon Creek.

Figure 11 shows the distribution of the four relative categories of water quality in the Petitcodiac drainage basin.

3.13 SEASONAL VARIABILITY

Many parameters showed important variations over months. Aluminium concentrations were higher in June and October and lower in August and September. The same pattern is observed for *E. coli*, iron, ammonia and ortho-phosphates. By contrast, conductivity and pH showed opposite trends, with maximum values in mid-summer. These trends are directly related to the hydrological regime in the watershed. August and September are the months where the lowest flows are observed in the Petitcodiac River. In baseflow conditions, the relative importance of groundwater flow is greater as dilution from rainfall is minimal. Groundwater typically demonstrates higher concentrations in major ions (e.g. Ca, Mg, K) which translates into higher electrical conductivity. Similarly, pH is generally higher in groundwater and greater pH values are thus expected in baseflow conditions. On the other hand, many pollutants, especially nutrients, are significantly related to precipitation and storm events and are expected to reach maximum values at high flows. Although the months at which observations are available do not cover the months of highest discharge (April, May), the data suggest that various parameters, including aluminium, iron and *E. coli*, are sensitive to seasonal variations in discharge. It cannot be excluded that high concentrations of various parameters, especially aluminium and nutrients would be found in maximum concentrations during the spring freshet and storm events. Sampling during these events could provide additional information about the general state of the watershed and potential sources of contaminants of the Petitcodiac River.



NOTE

Water bodies were classified on a relative basis, based on the average values of numerous water quality parameters measured between 1997 and 2000. Waterbodies shown in red are those where the worst conditions were observed while green represents the best conditions. Yellow and orange represent intermediate conditions. Parameters used for the classification include metals, nutrients, organic content and coliform bacteria.

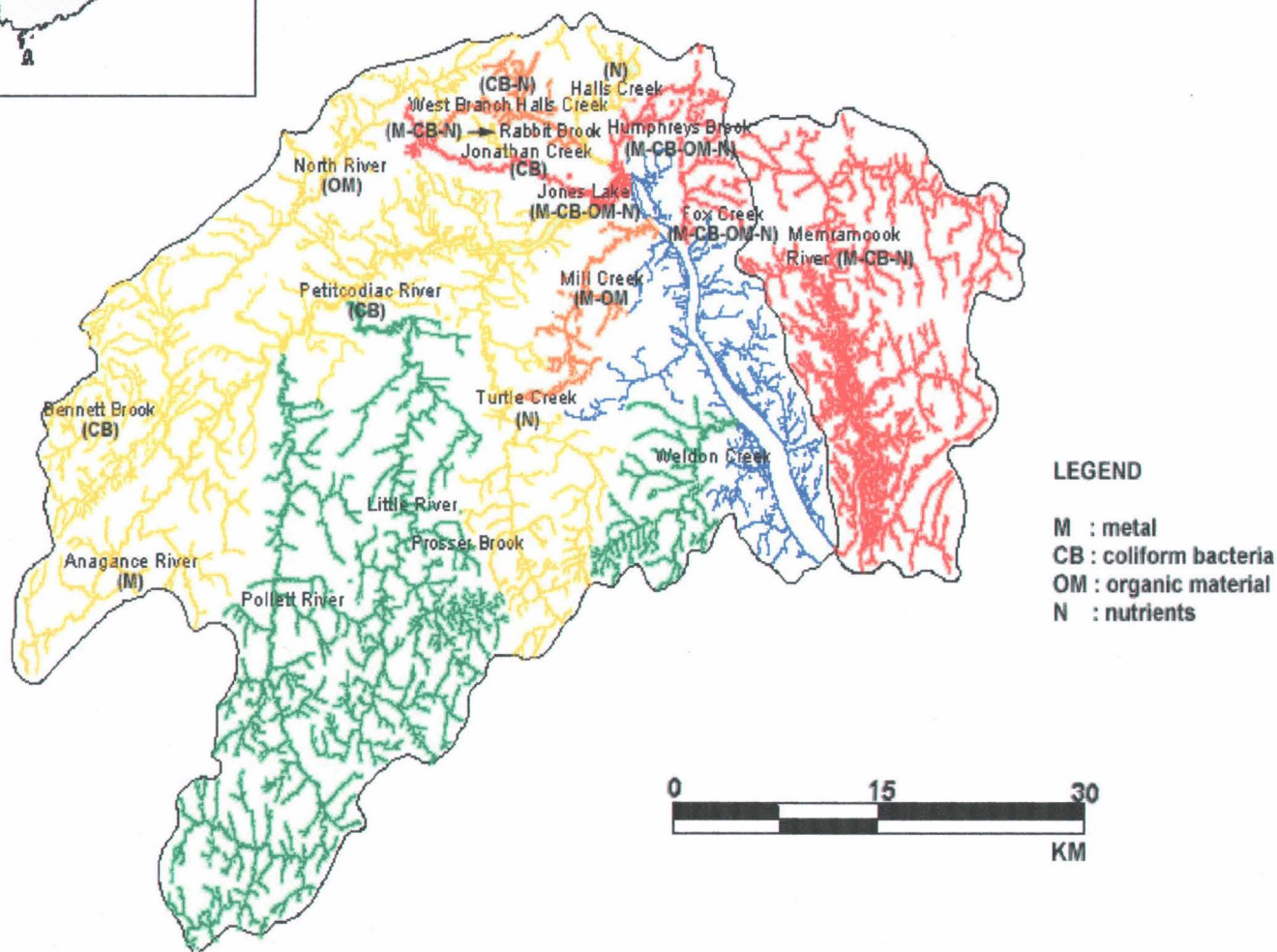


Figure 11 Water quality in the various sub-basins of the Petitcodiac Watershed

4. LAND AND WATER USES

The City of Moncton Engineering Department has collected land use data for the Greater Moncton Planning district. These data have been used in a Geographical Information System (GIS) to produce land use maps. The information found in these maps is summarized here.

The Petitcodiac watershed is mostly a forested territory, especially in its southern portion. Logging is an important industry in the area. Older forests can usually be found in the upper reaches of the tributaries located on the south shore of the Petitcodiac. The lower reaches have been subjected to logging. The forest in the lower portion of these sub-basins is therefore mostly composed of plantations, young forests and regenerating areas.

Agriculture is concentrated along the shores of the Petitcodiac and its tributaries, especially in the northern portion of the basin. Lands in the vicinity of the Anagance and North Rivers are mostly agricultural. There is also some agricultural activity along the Pollett and Little Rivers. Turtle Creek is used as the main freshwater source for the Greater Moncton area (Moncton, Dieppe and Riverview). Most of its drainage basin is forested, except for the lower reaches near its confluence with the Petitcodiac, which is agricultural.

The largest urban area is the Greater Moncton area with a total population nearing 100 000. It surrounds the lower reaches of Halls Creek and Jonathan Creek in Moncton, as well as Fox Creek in Dieppe. The presence of an old dumpsite on the north shore of the river between the Gunningsville Bridge and the causeway, has recently been a cause of concern and was mentioned as a potential threat to water quality, should there be a major erosion of the river banks at the site. Two other urbanized areas are found upstream of Moncton, along the shore of the Petitcodiac. The town of Petitcodiac is located near the confluence of the North and Anagance Rivers, and the town of Salisbury is located near the confluence of the Little River and the Petitcodiac River.

Water quality in the upper reaches of Turtle Creek is of the upper-most importance, because it is the main source of drinking water for the Greater Moncton area. In the city of Moncton, Jonathan Creek has an important recreational mission. The creek is a central feature in Centennial Park and water quality in Halls creek has been a cause for concern in the past.

Upstream of the Petitcodiac, Lake Petitcodiac (the reservoir) is used by boaters for recreational purposes. Angling (mostly for trout) is also popular throughout the river system, upstream of the causeway.

Downstream of the causeway, on the south shore, the collected sewage of the cities of Moncton, Riverview and Dieppe is received in the tidal portion of the river. There is some seasonal commercial fishing (gaspereau, shad and smelt) downstream of Moncton, in the estuary.

5. CONCLUSION

Recent water quality analyses in the Petitcodiac river watershed show that water quality degradation is apparent in various tributaries of the Petitcodiac River. A classification of the various waterbodies within the Petitcodiac watershed, based on the number of water quality parameters exceeding CWQG or regional levels, was established in order to discriminate between rivers or reaches which are relatively more pristine than others. Fox Creek, Humphreys Brook, Jones Lake, the Memramcook River and Rabbit Brook all had six or more parameters exceeding CWQG or regional levels. Weldon Creek, Prosser Brook, the Pollet River and the Little River were categorized as relatively pristine, with no parameters exceeding CWQG. The classification shows that water quality degradation in the Petitcodiac watershed prevails mostly in the tributaries in the vicinity of Moncton, as well as in the Memramcook River. In the Petitcodiac River itself, only one parameter (total coliforms) was found in high concentrations relative to the regional levels. This can be due in part to the fact that most sampling stations in the Petitcodiac River were located upstream of Moncton and do not reflect the possible influence of the tributaries on water quality and also to the dilution of the contaminants in the river.

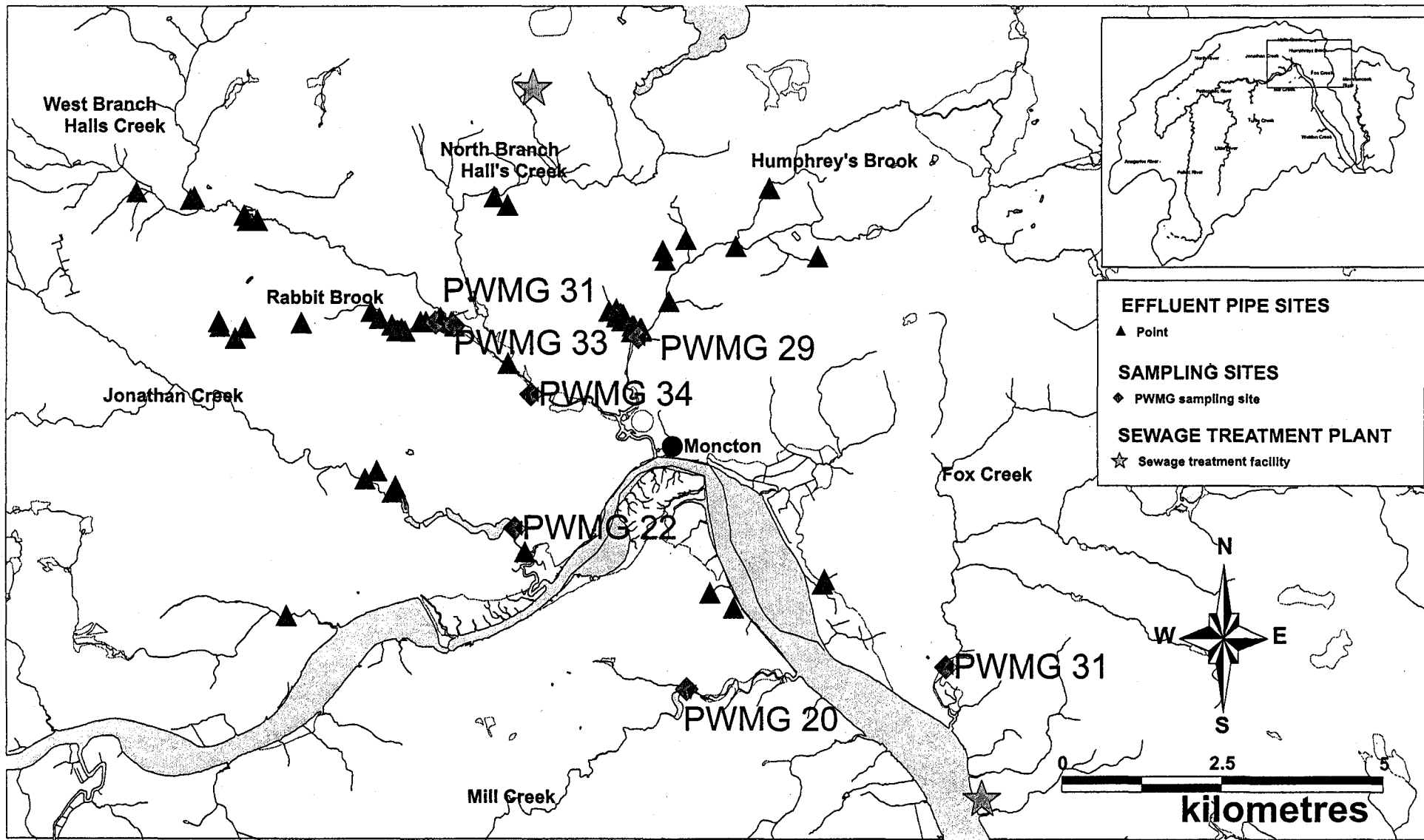
Temporal variations appear to be important for a number of parameters. Many water quality parameters show increased concentrations during periods of increase runoff (e.g. Al, Fe, E. Coli, ammonia, and orthophosphates during the months of June and October). Others seem to be diluted or decrease with higher discharge (e.g. conductivity and pH).

Spatial variability is also important. As seen with the classification scheme, some sub-basins appear to be more problematic than others (classification 4 in Table 1). Some of the figures presented in this report also showed spatial variability within the same watercourse. Jonathan Creek for instance, shows higher E. Coli upstream of Centennial Park than near Berry Mills Road.

6. REFERENCES

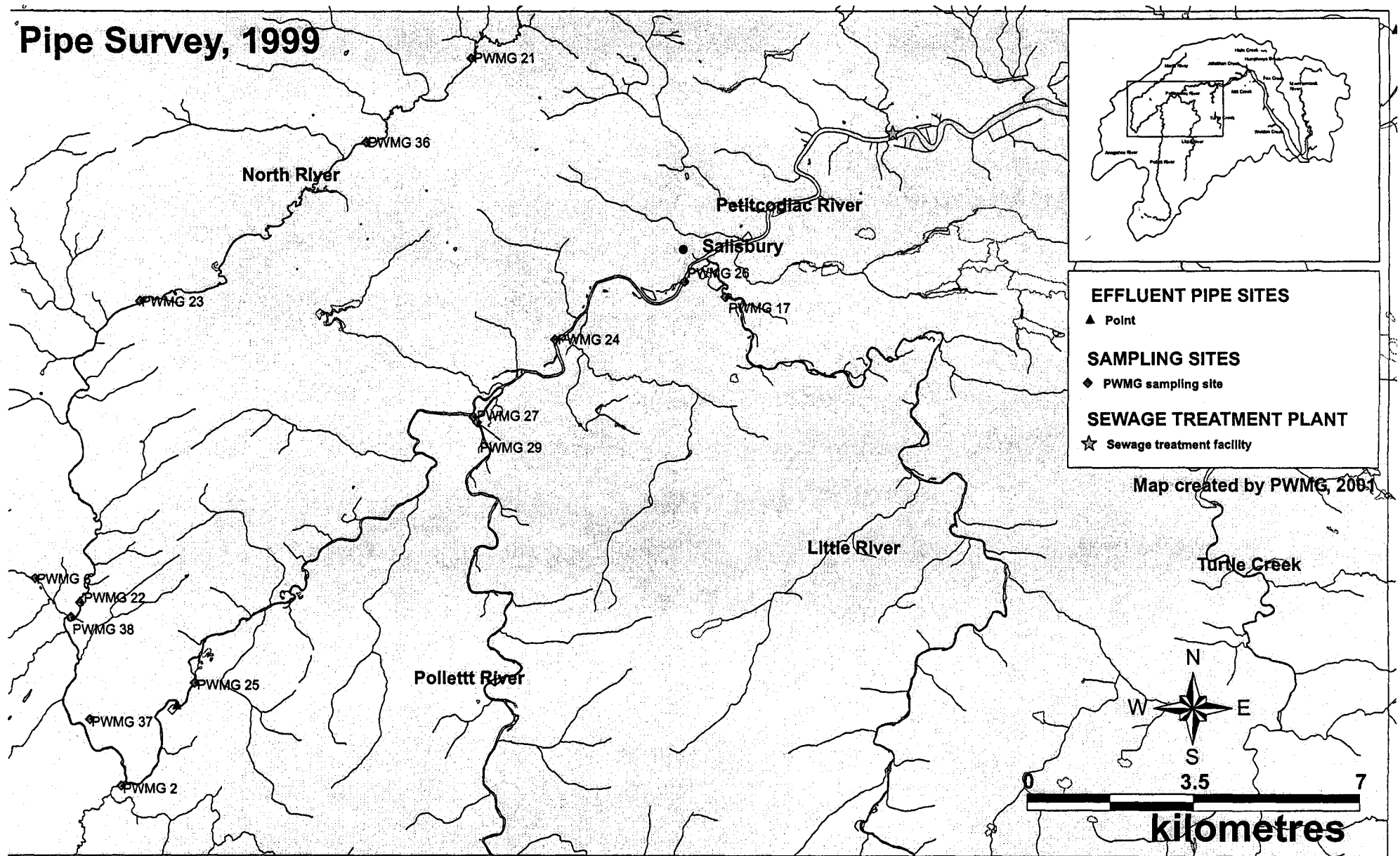
- CCME (Canadian Council of Ministers of the Environment). 1999. Canadian water quality guidelines for the protection of aquatic life: Summary table. In: Canadian environmental quality guidelines 1999, Canadian Council of Ministers of the Environment, Winnipeg.
- Frenette, I. 2000. Petitcodiac Watershed Monitoring Group. Progress report: 31 p.
- Geological survey of Canada (1982). Geological map, #1594A.
- New Brunswick Department of Natural Resources (1979). Surficial Geology, map #NR-1.
- St-Hilaire, A., B. Massicotte, A., B. Bobée, T. Ouarda, E. Arseneau, A. Chiasson. 2001. Petitcodiac Watershed Monitoring: Water quality and hydrological analysis. Report produced by Roche Ltée, Groupe-conseil and INRS-Eau on behalf of the Petitcodiac Watershed Monitoring Group. 46 p. 2 appendices.

APPENDIX 1
Inventory of point and non point pollution
sources in the Petitcodiac watershed

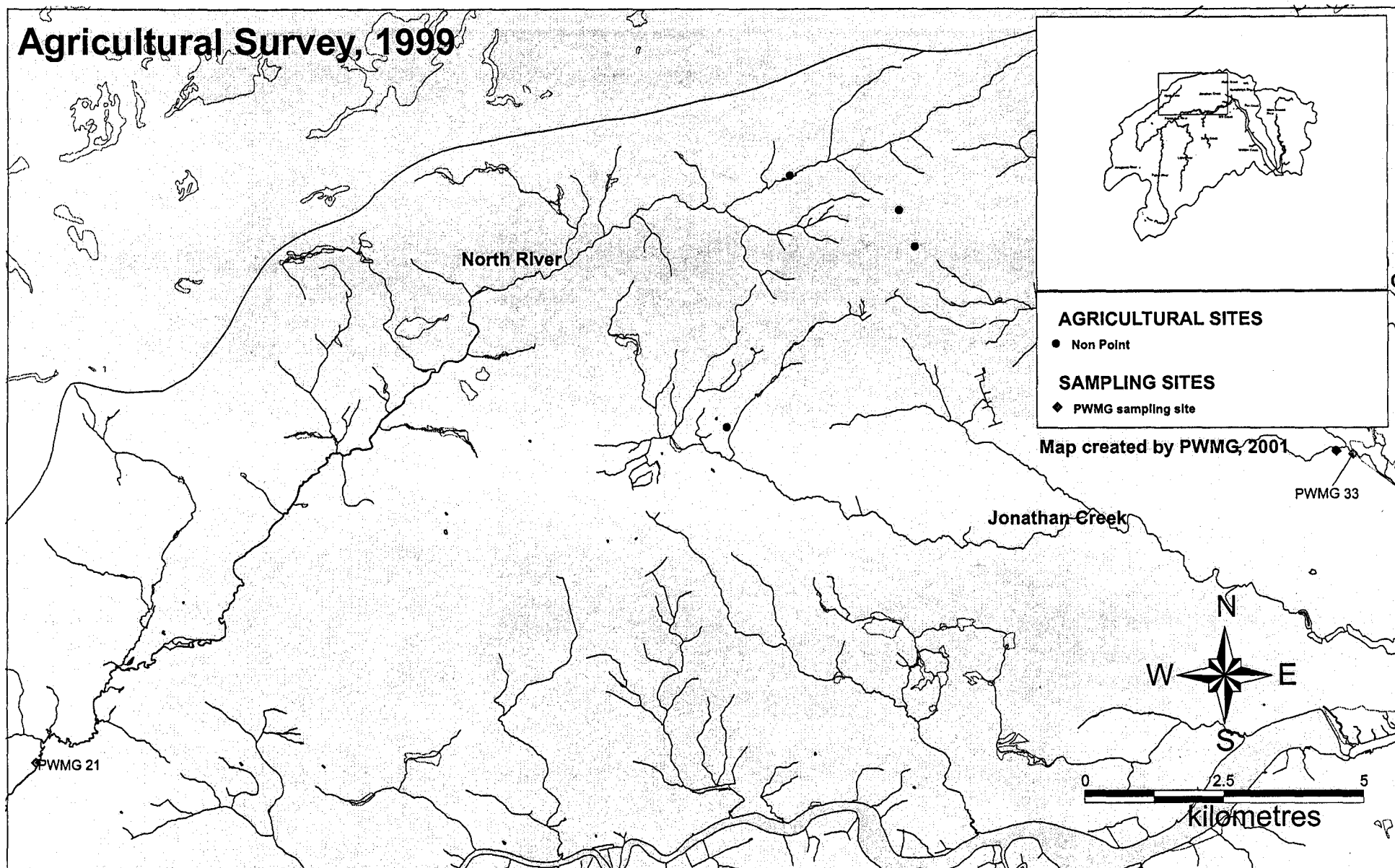


Appendix 1
Inventory of point and non point pollution sources in the Petitcodiac watershed

Pipe Survey, 1999

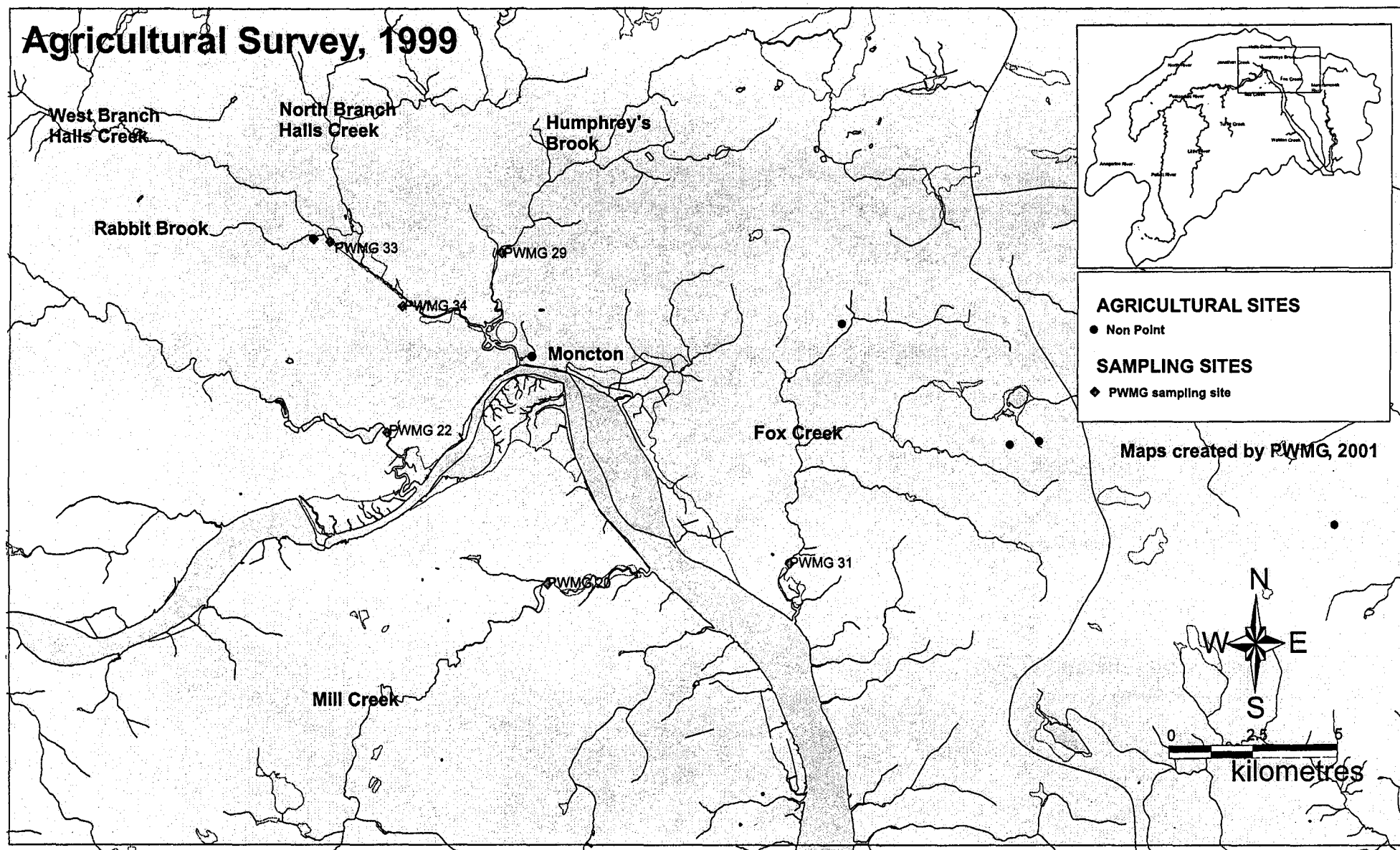


Appendix 1 (continued)
Inventory of point and non point pollution sources in the Petitcodiac watershed



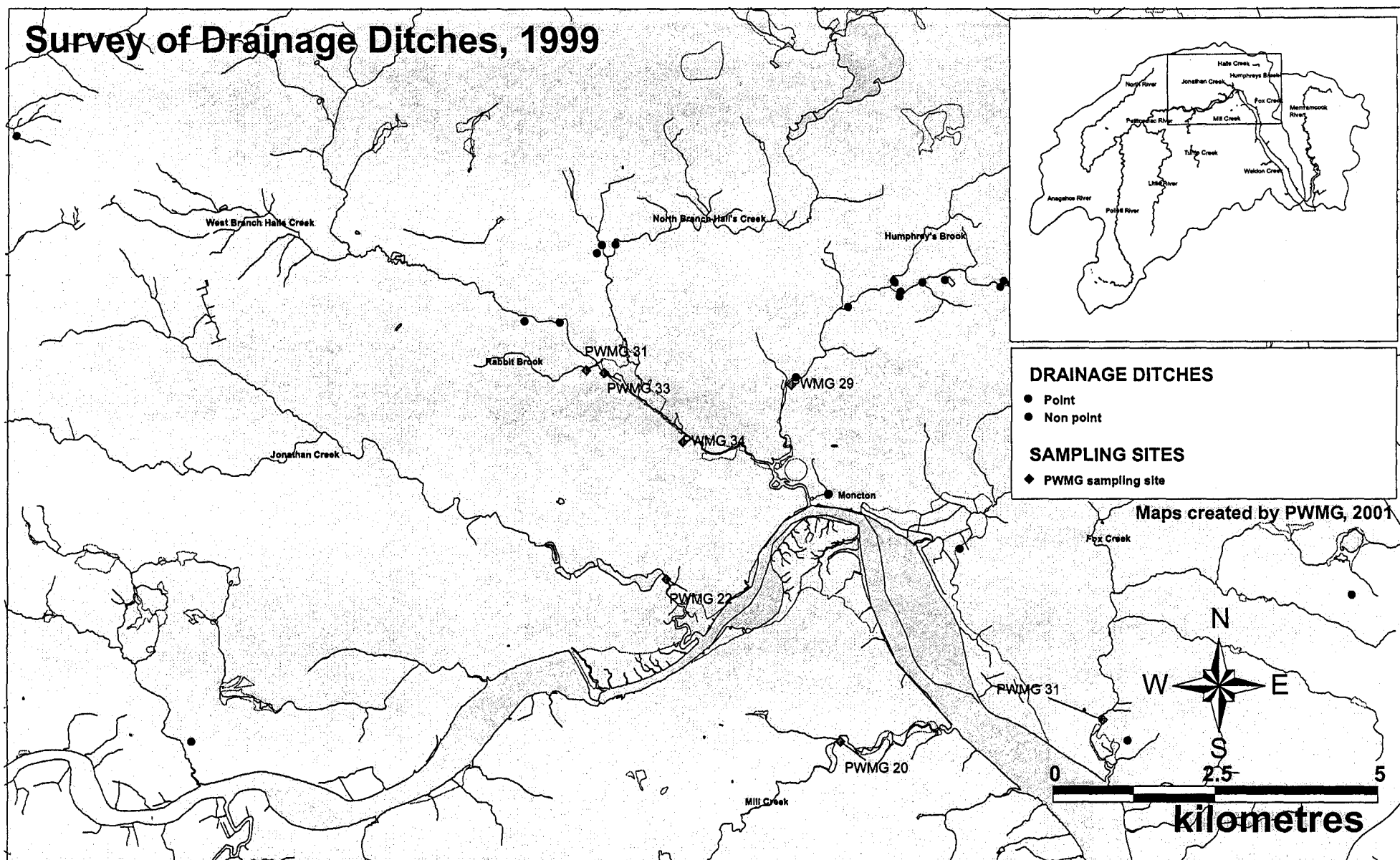
Appendix 1 (continued)
Inventory of point and non point pollution sources in the Petitcodiac watershed

Agricultural Survey, 1999

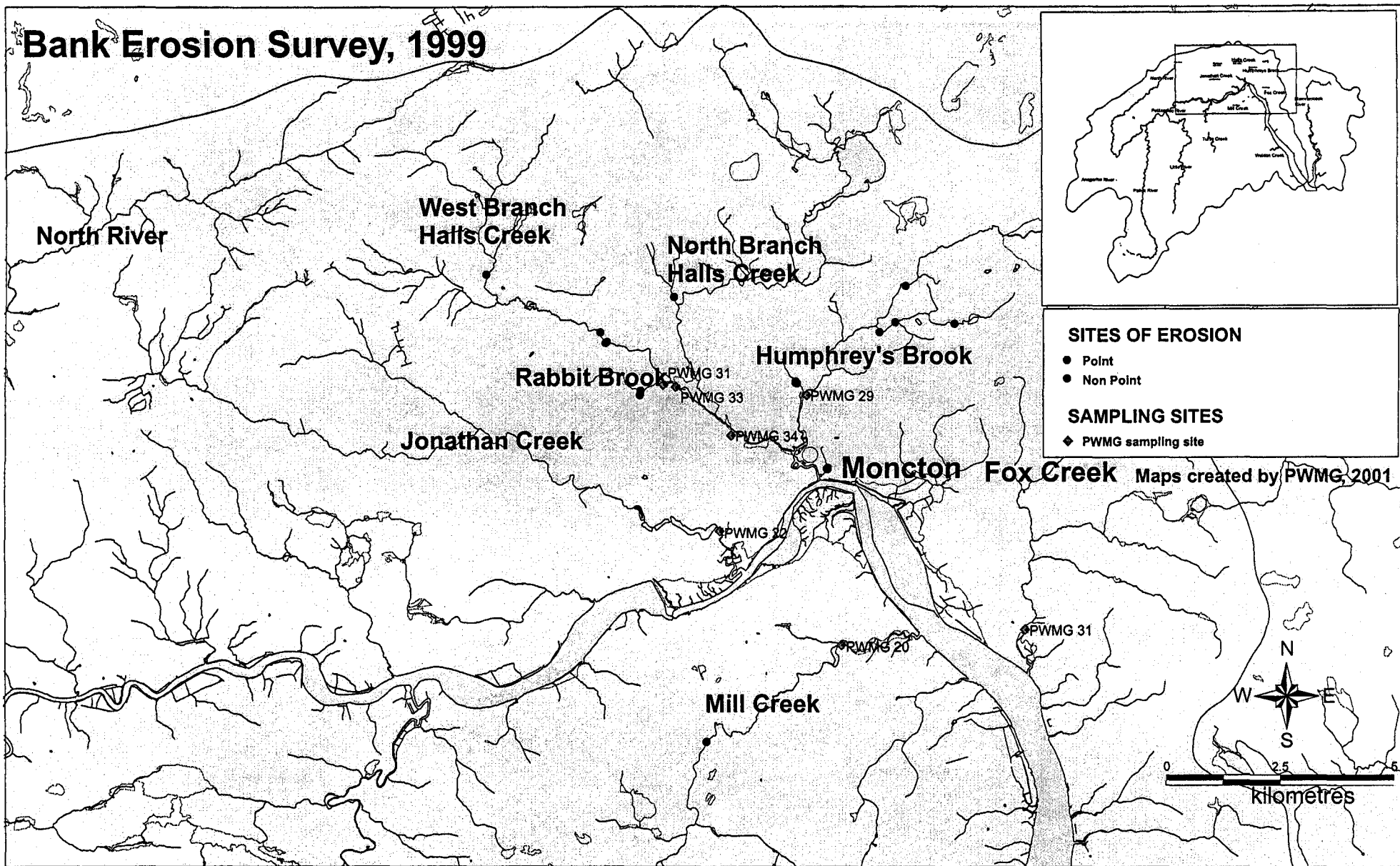


Appendix 1 (continued)

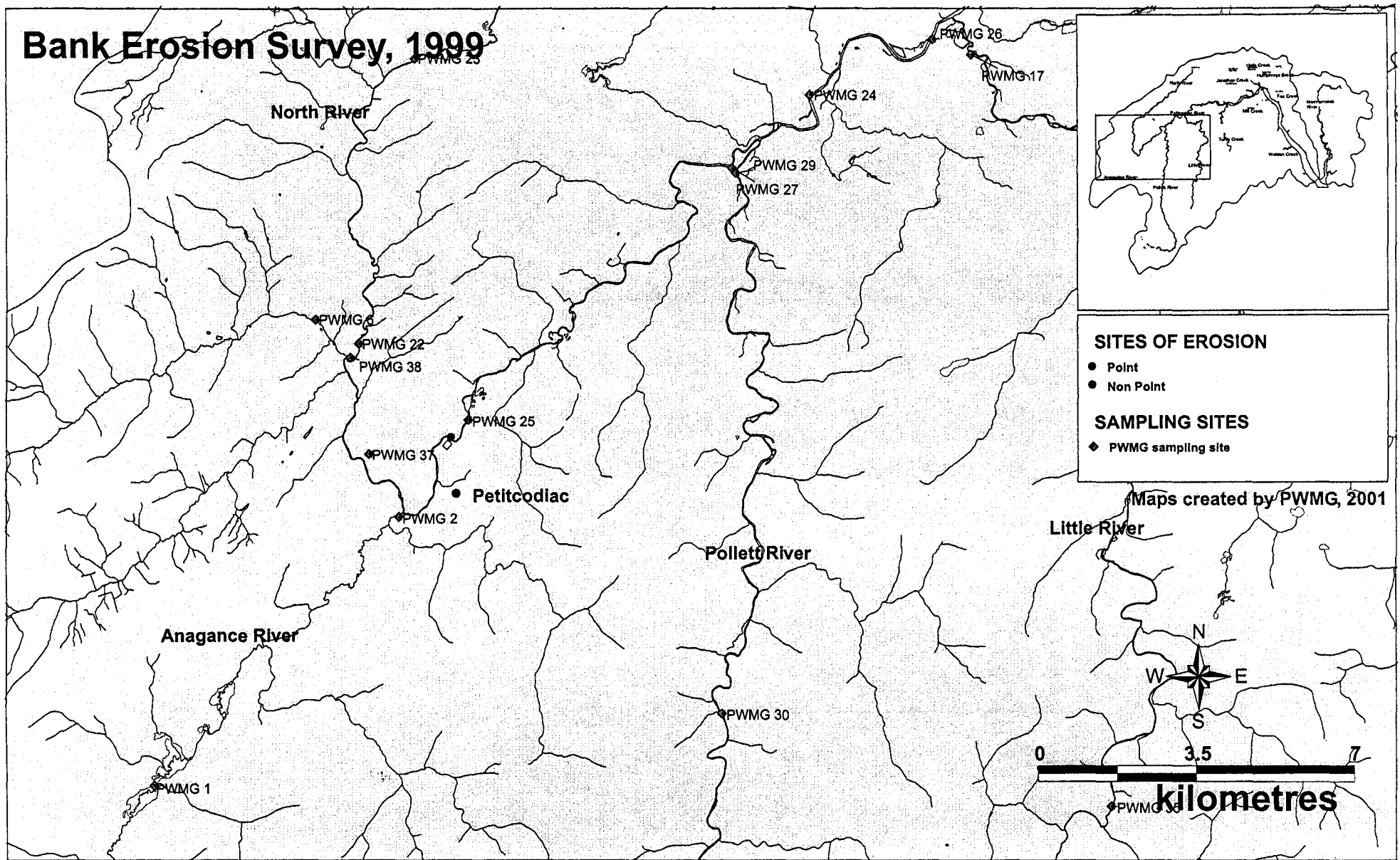
Inventory of point and non point pollution sources in the Petitcodiac watershed



Appendix 1 (continued)
Inventory of point and non point pollution sources in the Petitcodiac watershed



Appendix 1 (continued)
Inventory of point and non point pollution sources in the Petitcodiac watershed



Appendix 1 (continued)
Inventory of point and non point pollution sources in the Petitcodiac watershed

APPENDIX 2
Water quality data from the Petitcodiac watershed
1975-1999

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	FromDate	Month	Year	Field Number	Al (mg/L)	ALK G-T (mg/L)	As (µg/L)	BOD (mg/L)	Ca (mg/L)	Cd (µg/L)	Cl (mg/L)	CLRA (TCU)	COND (µSIE/cm)	Cr (µg/L)	Cu (µg/L)	DO (mg/L)	Client
Pollitt River	Pollitt River @ Sin 1		1975/05/16	5	1975	52-75-9400534									20				
Pollitt River	Pollitt River @ Sin 2		1975/05/16	5	1975	52-75-9400535									15				
Coverdale River	Coverdale River @ Sin 1		1975/05/21	5	1975	52-75-9400552			11.5						30				
Coverdale River	Coverdale River @ Sin 2		1975/05/21	5	1975	52-75-9400551			11.81						30				
Coverdale River	Coverdale River @ Sin 3		1975/05/21	5	1975	52-75-9400550			12.24						20				
Coverdale River	Coverdale River @ Sin 4		1975/05/21	5	1975	52-75-9400549			12.03						15				
Coverdale River	Coverdale River @ Sin 5		1975/05/21	5	1975	52-75-9400548			4.33						15				
Turtle Creek	Turtle Creek @ Sin 1		1975/05/21	5	1975	52-75-9400545			3.8						30				
Turtle Creek	Turtle Creek @ Sin 2		1975/05/21	5	1975	52-75-9400546			2.74						20				
Turtle Creek	Turtle Creek @ Sin 3		1975/05/21	5	1975	52-75-9400547			3.9						5				
Petitcodiac River	Petitcodiac River @ Sin 2		1975/05/26	5	1975	52-75-9400551			19.94						30				
Petitcodiac River	Petitcodiac River @ Sin 4		1975/05/26	5	1975	52-75-9400547			27.64						80				
Petitcodiac River	Petitcodiac River @ Sin 5		1975/05/26	5	1975	52-75-9400548			35.34						80				
Petitcodiac River	Petitcodiac River @ Sin 7		1975/05/26	5	1975	52-75-9400550			23.32						70				
Turtle Creek	Turtle Creek @ Sin 1		1975/05/26	5	1975	52-75-9400553			14.45						40				
Turtle Creek	Turtle Creek @ Sin 2		1975/05/26	5	1975	52-75-9400554			16.14						10				
Turtle Creek	Turtle Creek @ Sin 3		1975/05/26	5	1975	52-75-9400555			17.62						5				
Halls Brook	Halls Brook @ Sin 1		1975/05/28	5	1975	52-75-9400558			42.2						75				
Halls Brook	Halls Brook @ Sin 2		1975/05/28	5	1975	52-75-9400559			56.76						75				
Halls Brook	Halls Brook @ Sin 3		1975/05/28	5	1975	52-75-9400560			41.88						150				
Halls Brook	Halls Brook @ Sin 4		1975/05/28	5	1975	52-75-9400561			38.93						80				
Halls Brook	Halls Brook @ Sin 5		1975/05/28	5	1975	52-75-9400562			32.39						80				
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake		1975/05/29	5	1975	52-75-9400566			31.1						100				
Jonathan Creek	Jonathan Creek Past Berry Mills		1975/05/29	5	1975	52-75-9400565			29						100				
Petitcodiac River	Petitcodiac River @ Sin 1		1975/05/29	5	1975	52-75-9400563			113						500				
Petitcodiac River	Petitcodiac River @ Sin 1a		1975/05/29	5	1975	52-75-9400564			42.7						5000				
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake		1975/08/13	8	1975	52-75-9400691			90.1						20	277			
Jonathan Creek	Jonathan Creek Past Berry Mills		1975/08/13	8	1975	52-75-9400690			75.2						40	245			
Halls Brook	Halls Brook @ Sin 2		1975/08/15	8	1975	52-75-9400697			73.5						30	521			
Halls Brook	Halls Brook @ Sin 3		1975/08/15	8	1975	52-75-9400698			85.9						10	239			
Halls Brook	Halls Brook @ Sin 4		1975/08/15	8	1975	52-75-9400695			80.8						5	245			
Halls Brook	Halls Brook @ Sin 5		1975/08/15	8	1975	52-75-9400694			73.8						5	255			
Halls Brook	Halls Brook @ Sin 1		1975/08/25	8	1975	52-75-9400699			103						80	22700			
Coverdale River	Coverdale River @ Sin 1		1976/05/13	5	1976	52-76-9400510			6.32							34.6			12
Halls Brook	Halls Brook @ Sin 2		1976/05/13	5	1976	52-76-9400507			71.4							230			9
Halls Brook	Halls Brook @ Sin 4		1976/05/13	5	1976	52-76-9400508			29.8							144			11
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake		1976/05/13	5	1976	52-76-9400508			16							22.6			11
Jonathan Creek	Jonathan Creek Past Berry Mills		1976/05/13	5	1976	52-76-9400509			27.9							115			10
Petitcodiac River	Petitcodiac River @ Sin 7		1976/05/13	5	1976	52-76-9400513			24.3							81.3			11
Pollitt River	Pollitt River @ Sin 1		1976/06/09	6	1976	52-76-9400511			0.25							32.5			11
Halls Brook	Halls Brook @ Sin 2		1976/06/09	6	1976	52-76-9400520			40										
Halls Brook	Halls Brook @ Sin 4		1976/06/09	6	1976	52-76-9400528			44.9										16
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake		1976/06/09	6	1976	52-76-9400531			30.4										10
Jonathan Creek	Jonathan Creek Past Berry Mills		1976/06/09	6	1976	52-76-9400530			41.8										
Coverdale River	Coverdale River @ Sin 1		1976/06/10	6	1976	52-76-9400534			17.9										10
Petitcodiac River	Petitcodiac River @ Sin 1		1976/06/10	6	1976	52-76-9400532			66.9										
Petitcodiac River	Petitcodiac River @ Sin 7		1976/06/10	6	1976	52-76-9400536			27.1										10
Pollitt River	Pollitt River @ Sin 1		1976/06/10	6	1976	52-76-9400533			12.9										11
Jonathan Creek	Jonathan Creek Past Berry Mills		1976/07/06	7	1976	52-76-9400578			36.8										10
Coverdale River	Coverdale River @ Sin 1		1976/07/07	7	1976	52-76-9400583			29.3										10
Halls Brook	Halls Brook @ Sin 2		1976/07/07	7	1976	52-76-9400581			65.1										7
Halls Brook	Halls Brook @ Sin 4		1976/07/07	7	1976	52-76-9400580			65.3										
Petitcodiac River	Petitcodiac River @ Sin 1		1976/07/07	7	1976	52-76-9400582			143										8
Petitcodiac River	Petitcodiac River @ Sin 7		1976/07/07	7	1976	52-76-9400586			68.7										9
Pollitt River	Pollitt River @ Sin 1		1976/07/07	7	1976	52-76-9400584			23.4										9
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake		1976/11/16	11	1976	52-76-9400812													
Jonathan Creek	Jonathan Creek Above Stormsewer A		1976/11/16	11	1976	52-76-9400806													
Jonathan Creek	Jonathan Creek Above Stormsewer B		1976/11/16	11	1976	52-76-9400813													
Jonathan Creek	Jonathan Creek Below Park Culverts		1976/11/16	11	1976	52-76-9400808													
Jonathan Creek	Jonathan Creek Below Park Culverts		1976/11/16	11	1976	52-76-9400818													
Jonathan Creek	Jonathan Creek Below Stormsewer		1976/11/16	11	1976	52-76-9400807													
Jonathan Creek	Jonathan Creek Past Berry Mills		1976/11/16	11	1976	52-76-9400805													
Jonathan Creek	Jonathan Creek Past Berry Mills		1976/11/16	11	1976	52-76-9400817													
Rabbit Brook	Rabbit Brook @ Sin 1		1976/11/16	11	1976	52-76-9400809													
Rabbit Brook	Rabbit Brook @ Sin 2		1976/11/16	11	1976	52-76-9400810													
Rabbit Brook	Rabbit Brook @ Sin 3		1976/11/16	11	1976	52-76-9400811													
Rabbit Brook	Rabbit Brook @ Sin 4		1976/11/16	11	1976	52-76-9400814													
Coverdale River	Coverdale River @ Sin 1		1977/05/11	5	1977	52-77-9400522													14
Halls Brook	Halls Brook @ Sin 4		1977/05/11	5	1977	52-77-9400524													13
Petitcodiac River	Petitcodiac River @ Sin 7		1977/05/11	5	1977	52-77-9400519													13
Petitcodiac River	Petitcodiac River @ Sin 7		1977/05/11	5	1977	52-77-9400520													13
Turtle Creek	Turtle Creek @ Sin 2		1977/05/11	5	1977	52-77-9400521													13
Halls Brook	Halls Brook @ Sin 2		1977/05/12	5	1977	52-77-9400525													13
Halls Brook	Halls Brook @ Sin 4		1977/05/12	5	1977	52-77-9400523													13
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake		1977/05/12	5	1977	52-77-9400526													14
Jonathan Creek	Jonathan Creek @ Junc Of Rte 128 & Tch		1977/05/12	5	1977	52-77-9400527													14
Jonathan Creek	Jonathan Creek Past Berry Mills		1977/05/12	5	1977	52-77-9400528													13
Petitcodiac River	Petitcodiac River @ Sin 1		1977/05/12	5	1977	52-77-9400529													10

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	FromDate	Month	Year	Field Number	Al (mg/L)	ALK_G-T (mg/L)	As (µg/L)	BOD (mg/L)	Ca (mg/L)	Co (µg/L)	Cl (mg/L)	CLRA (TCU)	COND (µSIE/cm)	Cr (µg/L)	Cu (µg/L)	DO (mg/L)	Client-Id
Halls Brook	Halls Brook @ Sin 4		1977/08/05	8	1977	52-77-9400555													10
Coverdale River	Coverdale River @ Sin 1		1977/08/07	8	1977	52-77-9400553													11
Halls Brook	Halls Brook @ Sin 2		1977/08/07	8	1977	52-77-9400556													11
Petitcodiac River	Petitcodiac River @ Sin 7		1977/08/07	8	1977	52-77-9400552													11
Pollett River	Pollett River @ Sin 1		1977/08/07	8	1977	52-77-9400554													11
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake		1977/08/08	8	1977	52-77-9400558													10
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch		1977/08/08	8	1977	52-77-9400559													11
Jonathan Creek	Jonathan Creek Past Berry Mills		1977/08/08	8	1977	52-77-9400557													11
Coverdale River	Coverdale River @ Sin 1		1977/07/11	7	1977	52-77-9400567													9
Halls Brook	Halls Brook @ Sin 2		1977/07/11	7	1977	52-77-9400575													10
Halls Brook	Halls Brook @ Sin 4		1977/07/11	7	1977	52-77-9400574													10
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake		1977/07/11	7	1977	52-77-9400571													9
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch		1977/07/11	7	1977	52-77-9400573													9
Jonathan Creek	Jonathan Creek Past Berry Mills		1977/07/11	7	1977	52-77-9400572													9
Petitcodiac River	Petitcodiac River @ Sin 7		1977/07/11	7	1977	52-77-9400570													9
Pollett River	Pollett River @ Sin 1		1977/07/11	7	1977	52-77-9400568													10
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake		1977/07/19	7	1977	52-77-9400630										120			9.6
Coverdale River	Coverdale River @ Sin 1		1977/08/10	8	1977	52-77-9400632										40			10.2
Halls Brook	Halls Brook @ Sin 2		1977/08/19	8	1977	52-77-9400628										200			5.9
Halls Brook	Halls Brook @ Sin 4		1977/08/19	8	1977	52-77-9400628										200			9.4
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch		1977/08/19	8	1977	52-77-9400638										220			9.1
Jonathan Creek	Jonathan Creek Past Berry Mills		1977/08/19	8	1977	52-77-9400631										180			9.4
Petitcodiac River	Petitcodiac River @ Sin 7		1977/08/19	8	1977	52-77-9400635										180			8.8
Pollett River	Pollett River @ Sin 1		1977/08/19	8	1977	52-77-9400633										220			9.2
Coverdale River	Coverdale River @ Sin 1		1978/07/04	7	1978	52-78-9400783			22		6.9	5				65		5	10.8
Halls Brook	Halls Brook @ Sin 2		1978/07/04	7	1978	52-78-9400780			55		19	5				190		90	8.4
Halls Brook	Halls Brook @ Sin 4		1978/07/04	7	1978	52-78-9400785			65		42	5				300		5	10.2
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake		1978/07/04	7	1978	52-78-9400787			52		24	5				220		5	9.6
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch		1978/07/04	7	1978	52-78-9400788			46		27	5				180		5	8.1
Jonathan Creek	Jonathan Creek Past Berry Mills		1978/07/04	7	1978	52-78-9400789			59		23	5				230		10	11.4
Petitcodiac River	Petitcodiac River @ Sin 1a		1978/07/04	7	1978	52-78-9400784			25		11	5				200		20	11.8
Petitcodiac River	Petitcodiac River @ Sin 7		1978/07/04	7	1978	52-78-9400781			64		78	5				340		5	9.8
Pollett River	Pollett River @ Sin 1		1978/07/04	7	1978	52-78-9400782			13		4.9	5				44		5	10.2
Anagance River	Anagance River Above Mouth PWMG 2	2	1987/08/03	8	1987	54-87-057	0.0806	11.6	0.05		4	0.05	7.92	50	56.5	0.78	0.25		
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	1987/08/03	8	1987	54-87-056	0.103	12.3	0.05		3.8	0.05	7.64	75	57.8	1	0.25		
Bennett Brook	Bennett Brook PWMG 8	8	1987/08/03	8	1987	54-87-058	0.0532	43.6	2.2		38.1	0.05	148	30	744	1.9	1.8		
Little River	Little River near mouth PWMG 17	17	1987/08/03	8	1987	54-87-064	0.0451	15.1	0.05		5	0.05	3.39	20	51.8	0.8	0.25		
North River	North River Above Rte 885 Bridge PWMG 5	5	1987/08/03	8	1987	54-87-067	0.0971	34.9	1.4		26.9	0.05	26.2	70	277	1.8	0.8		
North River	North River below bridge on Morton Rd PWMG 7	7	1987/08/03	8	1987	54-87-068	0.109	31.2	1.5		28.3	0.05	33.1	150	295	1.7	0.7		
North River	North River Below Rte 112 Bridge PWMG 8	8	1987/08/03	8	1987	54-87-069	0.119	31.5	1.4		24.1	0.05	20.2	70	243	1.4	0.5		
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	1987/08/03	8	1987	54-87-074	0.0614	21.2	0.05		13.5	0.05	21	50	183	1	0.25		
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	1987/08/03	8	1987	54-87-071	0.0854	28	1.1		21.7	0.05	31.7	50	254	1.5	0.8		
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	1987/08/03	8	1987	54-87-072	0.083	28.2	1		21.7	0.05	32.8	50	255	1.5	0.8		
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 18	18	1987/08/03	8	1987	54-87-075	0.0552	17.6	0.05		9.9	0.05	13.8	40	117	0.8	0.25		
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	1987/08/03	8	1987	54-87-073	0.0817	28.6	1.1		19.5	0.05	29	60	230	1.5	0.5		
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1987/08/03	8	1987	54-87-077	0.0411	11.3	0.05		4	0.05	2.97	20	42	0.25	0.25		
Prosser Brook	Prosser Brook near mouth PWMG 16	16	1987/08/03	8	1987	54-87-081	0.025	18.9	0.05		6.8	0.05	2.18	5	52.7	0.25	0.25		
Fox Creek	Fox Creek at route 106 PWMG 31	31	1987/08/05	8	1987	54-87-059	0.205	26.4	0.05		11.7	0.05	30.8	200	183	1.4	0.25		
Humphreys Brook	Humphreys Brook @ Sin 1	1	1987/08/05	8	1987	54-87-081	3.4	35.1	5.1	10.5	15.4	0.5	69.9	500	319	3.4	10		
Jonathan Creek	Jonathan Creek Below Wheeler Blvd		1987/08/05	8	1987	54-87-082	0.0875	43.4	0.05		20.7	0.05	42.9	50	238	0.8	0.25		
Jones Lake	Jones Lake PWMG 22	22	1987/08/05	8	1987	54-87-083	5.1	41.5	7.5		19.6	0.5	243	375	858	8.9	12		
Turtle Creek	Turtle Creek @ Bypass Channel		1987/08/05	8	1987	54-87-082	0.0638	10.6	0.05		4	0.05	2.19	20	37.6	0.25	0.25		
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1987/08/05	8	1987	54-87-083	0.0281	22.4	0.05		11.4	0.05	4	10	94.3	0.6	0.25		
West Branch Halls Creek	West Branch Halls Creek @ Meadowdale Rd		1987/08/05	8	1987	54-87-085	0.151	65.8	0.05		37.2	0.05	61.8	60	373	1.1	1.2		
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28	1987/08/05	8	1987	54-87-084	0.0684	73	0.05		40.3	0.05	68.6	40	408	0.8	0.8		
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	1987/08/18	8	1987	54-87-080	0.0983	27.4	0.05		12.8	0.05	39.1	150	192	2	0.9		
Mill Creek	Mill Creek below reservoir PWMG 20	20	1987/08/18	8	1987	54-87-085	0.156	9.58	0.05		4.8	0.05	17.2	150	84.4	1.1	0.8		
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	1987/08/18	8	1987	54-87-086	0.0501	59.9	0.05		20.7	0.05	17	30	180	3.9	0.5		
North River	North River @ Pacific Junct Rd Bridge PWMG 9	9	1987/08/18	8	1987	54-87-070	0.0792	58.1	2		30.7	0.05	10.6	60	231	3.3	0.25		
Petitcodiac River	Petitcodiac River @ Causeway Fishway PWMG 21	21	1987/08/18	8	1987	54-87-111	0.0801	20.9	0.05		12.8	0.05	64.1	40	291	1.5	1		
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1987/08/18	8	1987	54-87-080	0.0354	7.05	0.05		2.7	0.05	2.15	20	28.6	0.8	0.25		
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	1987/08/18	8	1987	54-87-079	0.0329	10.4	0.05		3.9	0.05	2.43	20	38.5	0.9	0.25		
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	1987/08/18	8	1987	54-87-078	0.0233	12.2	0.05		4.7	0.05	2.62	20	43.1	0.9	0.25		
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	1987/08/18	8	1987	54-87-113	0.106	117	0.05		62.7	0.05	171	40	172	4.8	3.7		
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1987/08/18	8	1987	54-87-112	0.121	98.8	0.05		48	0.05	134	80	631	3.4	4.9		
Anagance River	Anagance River Above Mouth PWMG 2	2	1987/07/15	7	1987	54-87-191	0.069	15.7	0.05		5.5	0.05	8.27	80	86.7	1.2	0.25		
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	1987/07/15	7	1987	54-87-190	0.0874	14.3	0.05		4.8	0.05	6.72	70	57	1.7	3.1		
Bennett Brook	Bennett Brook PWMG 8	8	1987/07/15	7	1987	54-87-194	0.0553	41.8	2.8		31.3	0.05	118	20	578	2.5	2.7		
Fox Creek	Fox Creek at route 106 PWMG 31	31	1987/07/15	7	1987	54-87-219	0.161	54.7	1.3		24.4	0.05	53.5	100	298	2.7	3		
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 28	28	1987/07/15	7	1987	54-87-215	0.192	38.8	1.1		18.8	0.05	36.8	60	214	1.7	1.7		
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	1987/07/15	7	1987	54-87-214	0.0687	38.5	1.1		16.3	0.05	41.1	80	227	1.5	1.1		
Mill Creek	Mill Creek below reservoir PWMG 20	20	1987/07/19	7	1987	54-87-211	0.15	11.7	0.05		5.9	0.05	18.2	100	97	0.8	0.8		
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	1987/07/18	7	1987	54-87-198	0.0532	60.2	0.05		20.4	0.05	13.4	20	173	3.5	3		
North River	North River @ bridge (Fawcett-Wheaton Sett) PWMG 7	7	1987/07/15	7	1987	54-87-195	0.081	41.5	2.8		40.7	0.05	65.7	70	497	3	0.8		
North River	North River @ Pacific Junct Rd Bridge PWMG 9	9	1987/07/15	7	1987	54-87-197	0.0781	71.2	2.4		41.3	0.05	9.23	40	297	1.5	0.25		
North River	North River Above Rte 885 Bridge PWMG 5	5	1987/07/15	7	1987	54-87-208	0.0479	44.6	2.3		39	0.05	42.9	90	391	1.5	0.7		
North River	North River Below Rte 112 Bridge PWMG 8	8	1987/07/15	7	1987	54-87-196	0.0218	44	0.05		40.8								

Appendix 2. Water quality data from the Petlicodiac watershed, 1975-1999

Water body	Station	Station PWMG #	FromDate	Month	Year	Field Number	Al (mg/L)	ALK G-T (mg/L)	As (µg/L)	BOD (mg/L)	Ca (mg/L)	Cd (µg/L)	Cl (mg/L)	CLRA (TCU)	COND (µSIE/cm)	Cr (µg/L)	Cu (µg/L)	DO (mg/L)	Client-ID
Petlicodiac River	Petlicodiac River Above Rte 905 Bridge PWMG 3	3	1997/07/15	7	1997	54-97-192	0.0656	41.7	2.1		35.7	0.05	52.2	50	395	2.7	0.7		
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	1997/07/15	7	1997	54-97-193	0.0649	37.8	1.8		30.6	0.05	45.6	50	340	2.5	2.6		
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	1997/07/15	7	1997	54-97-210	0.0357	125	0.05		70.5	0.05	144	15	728	6.1	3.5		
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1997/07/15	7	1997	54-97-209	0.0568	115	0.05		62.6	0.05	140	30	662	2.5	2.8		
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1997/07/15	7	1997	54-97-213	0.021	35.4	1.7		22.1	0.05	7.51	5	179	1.7	0.25		
Jonathan Creek	Jonathan Creek Below Horsman Road PWMG 23 (en dupl)	23	1997/07/16	7	1997		0.0584	55.05	0.05		24.15	0.05	37.8	30	249	1.95	0.55		
Jones Lake	Jones Lake PWMG 22	22	1997/07/16	7	1997	54-97-218	0.156	47.9	1.7		20.6	0.05	39	60	241	2.2	2.5		
Little River	Little River near mouth PWMG 17	17	1997/07/16	7	1997	54-97-206	0.02	22.7	0.05		8.4	0.05	6.43	5	78	0.9	2		
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	1997/07/16	7	1997	54-97-202	0.0521	33.1	2.1		24.8	0.05	35.6	30	278	2.8	0.6		
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	1997/07/16	7	1997	54-97-203	0.0358	28.4	1.6		19.4	0.05	27.2	20	221	1.7	1.2		
Petlicodiac River	Petlicodiac River near mouth of Pollett R PWMG 10	10	1997/07/16	7	1997	54-97-204	0.0572	36.9	2.4		29.7	0.05	44.8	40	338	1.4	2.4		
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1997/07/16	7	1997	54-97-205	0.0278	18.6	0.05		6.5	0.05	4.68	10	60.9	1.3	0.25		
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1997/07/16	7	1997	54-97-201	0.0298	8.51	0.05		3.1	0.05	2.3	5	32.7	0.25	0.25		
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	1997/07/16	7	1997	54-97-200	0.0383	11.9	0.05		4.4	0.05	2.73	5	41.2	0.5	0.25		
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	1997/07/16	7	1997	54-97-199	0.0205	14.8	0.05		5.6	0.05	3.05	5	51.4	1	0.25		
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1997/07/16	7	1997	54-97-207	0.0149	25.2	0.05		9.1	0.05	2.46	0	66.7	1.1	0.25		
Turtle Creek	Turtle Creek @ Bypass Channel		1997/07/16	7	1997	54-97-218	0.0372	14	0.05		5	0.05	2.32	20	46.2	0.6	0.25		
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	1997/07/16	7	1997	54-97-221	0.0803	83.1	0.05		46.6	0.05	54.3	20	413	0.25	2		
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1997/07/16	7	1997	54-97-220	0.0784	91.2	0.05		47.5	0.05	75.8	30	462	1.5	1.8		
Anagance River	Anagance River Above Mouth PWMG 2	2	1997/08/11	8	1997	54-97-332	0.0246	22.4	0.05		7.7	0.05	10.6	40	92.7	0.25	0.5		
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	1997/08/11	8	1997	54-97-331	0.0278	18.4	0.05		5.7	0.05	10.4	50	82.9	0.25	0.25		
Bennett Brook	Bennett Brook PWMG 6	6	1997/08/11	8	1997	54-97-336	0.0156	63.4	3.4		66.7	0.05	310	20	1420	0.25	2.9		
Little River	Little River near mouth PWMG 17	17	1997/08/11	8	1997	54-97-346	0.0238	24.2	0.05		9.5	0.05	8.72	5	94.7	0.25	3		
Mill Creek	Mill Creek below reservoir PWMG 20	20	1997/08/11	8	1997	54-97-357	0.11	18.2	0.05		8.2	0.05	28.5	100	147	0.25	0.7		
North River	North River @ bridge (Fawcett-Wheaton Sett) PWMG 7	7	1997/08/11	8	1997	54-97-337	0.025	64.6	1.7		82.3	0.05	148	30	1017	0.6	2.1		
North River	North River Above Rte 885 Bridge PWMG 5	5	1997/08/11	8	1997	54-97-335	0.0092	68.8	2.3		73.1	0.05	102	20	777	0.25	1.3		
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	1997/08/11	8	1997	54-97-344	0.0148	37.2	0.05		32.7	0.05	63.3	15	417	0.25	1.2		
Petlicodiac River	Petlicodiac River Above Rte 905 Bridge PWMG 3	3	1997/08/11	8	1997	54-97-333	0.0156	54.6	1.8		55.6	0.05	118	30	717	0.25	1.5		
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	1997/08/11	8	1997	54-97-334	0.0127	53.8	1.9		53.2	0.05	115	30	690	0.25	1.5		
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	1997/08/11	8	1997	54-97-345	0.0138	33.9	0.05		27.8	0.05	50.8	10	350	0.25	0.6		
Petlicodiac River	Petlicodiac River near mouth of Pollett R PWMG 10	10	1997/08/11	8	1997	54-97-342	0.0142	52.2	1.3		51.3	0.05	108	10	658	0.25	1.6		
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1997/08/11	8	1997	54-97-343	0.0275	18	0.05		7.6	0.05	7.07	5	77.4	0.25	0.7		
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1997/08/11	8	1997	54-97-338	0.0262	8.14	0.05		3.5	0.05	2.37	5	34.4	0.25	0.6		
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	1997/08/11	8	1997	54-97-339	0.0336	11	0.05		4.5	0.05	3.15	5	44.7	0.25	0.25		
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	1997/08/11	8	1997	54-97-340	0.0178	15.5	0.05		6.5	0.05	3.56	5	58.7	0.25	1		
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1997/08/11	8	1997	54-97-341	0.0114	29.1	0.05		10.7	0.05	3.03	5	79.2	0.25	1.1		
Turtle Creek	Turtle Creek @ Bypass Channel		1997/08/11	8	1997	54-97-349	0.0538	17.9	0.05		6.1	0.05	2.71	40	58.8	0.25	0.25		
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1997/08/11	8	1997	54-97-350	0.0142	39.4	1.8		26.9	0.05	9.04	10	222	0.25	1.3		
Fox Creek	Fox Creek at route 106 PWMG 31	31	1997/08/12	8	1997	54-97-380	0.0725	87.6	0.05		41.8	0.05	130	40	628	0.8	5.3		
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1997/08/12	8	1997	54-97-361	0.0441	66.8	0.05		26	0.05	49.1	40	313	0.25	3.3		
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	1997/08/12	8	1997	54-97-358	0.032	51.8	0.05		21.2	0.05	45.2	50	268	0.25	1.1		
Jonathan Creek	Jonathan Creek Below Horsman Road PWMG 23	23	1997/08/12	8	1997	54-97-348	0.115	86.1	0.05		35.1	0.05	58.7	30	380	0.25	1.9		
Jones Lake	Jones Lake PWMG 22	22	1997/08/12	8	1997	54-97-359	0.221	66.7	1.4		28.2	0.05	55.4	50	351	0.7	3.1		
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	1997/08/12	8	1997	54-97-355	0.0318	64.8	0.05		22.7	0.05	13.5	30	184	0.25	1.1		
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	1997/08/12	8	1997	54-97-347	0.0238	87	2.2		58.3	0.05	12	20	395	0.25	1.7		
North River	North River Below Rte 112 Bridge PWMG 8	8	1997/08/12	8	1997	54-97-382	0.021	71.7	2.4		78.5	0.05	79.9	30	794	0.25	1.1		
Petlicodiac River	Petlicodiac River @ Causeway Flatway PWMG 21	21	1997/08/12	8	1997	54-97-358	0.0545	25.3	1.9		16.2	0.05	106	40	485	0.25	3.2		
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	1997/08/12	8	1997	54-97-352	0.119	141	2.3		78.7	0.3	180	20	827	0.8	8.66		
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1997/08/12	8	1997	54-97-351	0.0875	117	0.05		57.1	0.05	130	60	688	0.25	5.9		
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	1997/08/12	8	1997	54-97-354	0.0271	95.3	0.05		60.1	0.05	64	10	512	0.5	2.8		
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1997/08/12	8	1997	54-97-353	0.0898	99.4	0.05		53.3	0.05	74.2	20	521	0.25	2.1		
Memramcook	Memramcook River @ Calhoun PWMG 35	35	1997/08/17	8	1997	54-97-387	0.0503	15.9	0.05		6.4	0.05	16.1	80	68.8	0.25	0.25		8.2
Memramcook	Memramcook River @ Collage Bridge PWMG 36	36	1997/08/17	8	1997	54-97-388	1.53	80.9	10.8		43.5	0.05	1683	200	5330	4.4	16.1		6.2
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	1997/09/13	9	1997	54-97-434	0.134	50.7	1.8		34	0.05	9.89	50	264	0.9	0.25		8.7
North River	North River below bridge on Morton Rd PWMG 7	7	1997/09/13	9	1997	54-97-432	0.144	24.2	1.4		25.2	0.05	26.4	80	275	0.8	0.9		9.1
North River	North River Below Rte 112 Bridge PWMG 8	8	1997/09/13	9	1997	54-97-433	0.184	24.4	1.5		24.1	0.05	18.9	80	243	0.8	2.2		7.9
Anagance River	Anagance River Above Mouth PWMG 2	2	1997/09/14	9	1997	54-97-421	0.058	18.7	0.05		7.7	0.05	17.3	50	115	0.25	2.6		8.4
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1 (en trip)	1	1997/09/14	9	1997		0.0564	18.3000	0.0500		6.0333	0.0500	12.6887	66.6667	95.6667	0.4000	0.2500		8.4000
Bennett Brook	Bennett Brook PWMG 6	6	1997/09/14	9	1997	54-97-422	0.0023	75.9	0.05		98.2	0.05	500	20	2220	0.25	0.9		10
Fox Creek	Fox Creek at route 106 PWMG 31	31	1997/09/14	9	1997	54-97-423	0.478	77.7	5		30.5	0.05	81.5	50	461	11.4	19.6		5.4
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1997/09/14	9	1997	54-97-425	0.0257	41.9	0.05		18.5	0.05	59	40	289	0.8	0.25		8.4
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	1997/09/14	9	1997	54-97-424	0.112	58.3	0.05		24	0.05	73.9	80	388	1.4	2.1		9.6
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	1997/09/14	9	1997	54-97-426	0.139	41.7	0.05		20	0.05	33.3	80	237	1	1		8.7
Jones Lake	Jones Lake PWMG 22	22	1997/09/14	9	1997	54-97-427	0.311	42.4	0.05		20.2	0.05	41.1	80	267	1.4	5.3		8.2
Little River	Little River near mouth PWMG 17	17	1997/09/14	9	1997	54-97-428	0.0202	25.5	0.05		9.5	0.05	6	15	91.3	0.25	0.25		9.6
Memramcook	Memramcook River @ Calhoun PWMG 35	35	1997/09/14	9	1997	54-97-453	0.153	8.22	0.05		6.77	0.2	11	120	78.7	8.7	25.2		9.4
Memramcook	Memramcook River @ Collage Bridge PWMG 36	36	1997/09/14	9	1997	54-97-452	0.242	80.5	2		175	0.05	5707	80	17700	0.25	2.7		8.3
Mill Creek	Mill Creek below reservoir PWMG 20	20	1997/09/14	9	1997	54-97-429													

Appendix 2. Water quality data from the Petiscodiac watershed, 1975-1999

Water body	Station	Station PWMG #	From Date	Month	Year	Field Number	Al (mg/L)	ALK G-T (mg/L)	As (µg/L)	BOD (mg/L)	Ca (mg/L)	Cd (µg/L)	Cl (mg/L)	CLRA (TCU)	COND (µS/cm)	Cr (µg/L)	Cu (µg/L)	DO (mg/L)	Client-Id
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	1997/09/14	9	1997	54-97-442	0.0137	15.9	0.05		8.4	0.05	3.72	5	60	0.25	0.5		10
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1997/09/14	9	1997	54-97-445	0.0169	32.3	0.05		11.6	0.05	3.14	5	85.4	0.25	0.25		9.4
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	1997/09/14	9	1997	54-97-447	0.096	108	0.05		56.1	0.05	130	40	684	1.8	6.1		8.5
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1997/09/14	9	1997	54-97-448	0.0865	106	0.05		49.4	0.05	118	40	634	2.8	6.1		6.2
Turtle Creek	Turtle Creek @ Bypass Channel (en trip)		1997/09/14	9	1997		0.0589	35.6	1.33333333		7.86666667	0.05	4.42666667	70	97.63333333	0.51666667	0.25		8.6
Waldon Creek	Waldon Creek D/S from Salem PWMG 32	32	1997/09/14	9	1997	54-97-449	0.079	36.7	1.3		23.1	0.05	8.46	10	214	0.7	0.6		9.7
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	1997/09/14	9	1997	54-97-451	0.151	83.9	0.05		45.2	0.05	62.8	50	477	1.1	1.7		8.3
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1997/09/14	9	1997	54-97-450	0.187	88.6	0.05		44.4	0.05	73.4	50	502	1.1	3.4		7.5
Pellicodiac River	Pellicodiac River Above Rte 905 Bridge PWMG 3	3	1997/09/15	9	1997	54-97-435	0.0005	38.9	0.05		41.5	0.1	63.6	60	515	0.25	0.25		9.6
Pellicodiac River	Pellicodiac River at TCH Bridge PWMG 4	4	1997/09/15	9	1997	54-97-436	0.0005	37.8	0.05		37.7	0.05	68.8	70	472	0.25	0.25		9.9
Anagance River	Anagance River Above Mouth PWMG 2	2	1997/10/13	10	1997	54-97-506	0.0123	21.3	0.05		7.99	0.28	14.5	30	110	0.75	0.75		11.2
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	1997/10/13	10	1997	54-97-505	0.0384	17.2	0.05		5.84	0.05	12.7	40	94.9	0.25	0.25		7.2
Bennett Brook	Bennett Brook PWMG 6	6	1997/10/13	10	1997	54-97-507	0.0078	79.7	1.7		129	0.05	617	15	2720	3.5	0.25		13.5
Fox Creek	Fox Creek at route 106 PWMG 31	31	1997/10/13	10	1997	54-97-508	0.354	81.1	0.05		36.27	0.05	86.6	50	488	4	3.4		10
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1997/10/13	10	1997	54-97-510	0.0141	45.8	0.05		20.42	0.05	59.1	30	311	2.2	0.25		10.6
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	1997/10/13	10	1997	54-97-509	0.134	62	0.05		26.77	0.05	59.4	50	348	2.5	0.25		12.6
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	1997/10/13	10	1997	54-97-512	0.0909	64.2	0.05		32.6	0.05	50.3	40	330	1.1	0.25		12
Jones Lake	Jones Lake PWMG 22	22	1997/10/13	10	1997	54-97-511	3.35	51.1	2.9		28.18	0.05	63.5	100	395	3.3	4.4		10.7
Little River	Little River near mouth PWMG 17	17	1997/10/13	10	1997	54-97-513	0.0088	27	0.05		11.3	0.05	9.29	5	105	0.9	0.25		11.4
Mill Creek	Mill Creek below reservoir PWMG 20	20	1997/10/13	10	1997	54-97-514	0.0895	16.1	0.05		8.18	0.05	30.3	80	160	1.1	0.25		9.9
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	1997/10/13	10	1997	54-97-515	0.0241	65.2	0.05		22.51	0.05	12.2	10	185	2.5	0.25		10.6
North River	North River @ Pacific Junc Rd Bridge PWMG 9 (en trip)	9	1997/10/13	10	1997		0.01963333	84.86666667	1.46666667		54.94	0.05	12.03333333	18.33333333	387.66666667	1.53333333	0.25		12.2
North River	North River Above Rte 885 Bridge PWMG 5	5	1997/10/13	10	1997	54-97-516	0.0093	61.9	1.6		71.81	0.05	75.4	30	693	2.1	0.25		13
North River	North River below bridge on Morton Rd PWMG 7	7	1997/10/13	10	1997	54-97-517	0.02	56.7	1.2		71.02	0.05	96.4	30	782	1	0.25		10.3
North River	North River Below Rte 112 Bridge PWMG 8	8	1997/10/13	10	1997	54-97-518	0.0309	59.3	1.3		64.99	0.05	51.4	20	606	1.5	0.25		10.6
Pellicodiac River	Pellicodiac River @ Causeway Fishway PWMG 21	21	1997/10/13	10	1997	54-97-525	0.0421	32.7	1.5		27.18	0.05	211	30	909	1.1	0.6		10.7
Pellicodiac River	Pellicodiac River Above French Brook PWMG 15	15	1997/10/13	10	1997	54-97-522	0.0111	42.8	0.05		42.85	0.05	63.7	15	541	1.2	0.25		11.6
Pellicodiac River	Pellicodiac River Above Rte 905 Bridge PWMG 3	3	1997/10/13	10	1997	54-97-520	0.031	58.8	1.2		67.84	0.05	4.77	20	872	1.1	0.25		11.6
Pellicodiac River	Pellicodiac River at TCH Bridge PWMG 4	4	1997/10/13	10	1997	54-97-521	0.0162	56.9	1.2		66.79	0.05	138	30	849	1.1	0.25		15.7
Pellicodiac River	Pellicodiac River Below Rte 112 Bridge PWMG 16	16	1997/10/13	10	1997	54-97-523	0.0114	38.9	0.05		37.36	0.05	68	15	469	0.25	0.25		12
Pellicodiac River	Pellicodiac River near mouth of Pollitt R PWMG 10	10	1997/10/13	10	1997	54-97-524	0.0106	56.1	0.05		58.81	0.05	121	20	774	1.2	0.25		10.5
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	1997/10/13	10	1997	54-97-526	0.01	19.3	0.05		8.82	0.05	7.94	5	85.9	0.25	0.25		10.9
Pollitt River	Pollitt River @ Church's Corner PWMG 14 (en trip)	14	1997/10/13	10	1997		0.01366667	8.36333333	0.05		3.35	0.05	2.53333333	3.33333333	36.56666667	0.25	0.25		11
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	1997/10/13	10	1997	54-97-528	0.0125	12.9	0.05		5.13	0.05	3.61	0	48.4	0.25	0.25		11.2
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	1997/10/13	10	1997	54-97-527	0.0081	17.1	0.05		7.27	0.05	4.2	5	66	0.28	0.25		9.4
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1997/10/13	10	1997	54-97-530	0.0082	31.9	0.05		11.7	0.05	2.96	0	86.9	0.25	0.25		12.1
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25 (en trip)	25	1997/10/13	10	1997		0.01673333	144	0.05		77.01	0.05	158.333333	10	838	2.8	2.56666667		11
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1997/10/13	10	1997	54-97-531	0.0369	136	0.05		73.71	0.05	154	30	815	0.8	1.2		8.4
Turtle Creek	Turtle Creek @ Bypass Channel		1997/10/13	10	1997	54-97-533	0.0619	39.5	0.05		9.8	0.05	6.87	20	120	0.9	0.25		9.9
Waldon Creek	Waldon Creek D/S from Salem PWMG 32	32	1997/10/13	10	1997	54-97-534	0.0035	41.9	1.2		33.45	0.05	10.2	5	274	0.25	0.25		12.6
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	1997/10/13	10	1997	54-97-536	0.032	91.5	0.05		61.32	0.05	59.1	10	518	1.8	0.25		11.5
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1997/10/13	10	1997	54-97-535	0.074	96.7	0.05		59.47	0.05	79.8	10	541	0.25	0.25		9.9
Anagance River	Anagance River Above Mouth PWMG 2	2	1998/08/17	8	1998	54-98-63	0.0891	16.5	0.05		5.4	0.05	13	50	82	1.2	1.5		
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	1998/08/17	8	1998	54-98-62	0.0785	15	0.05		4.6	0.05	12.3	70	75.3	1.2	0.8		
Bennett Brook	Bennett Brook PWMG 6	6	1998/08/17	8	1998	54-98-67	0.309	45.9	3.4		35.3	0.05	105	70	541	2.7	2.5		
Little River	Little River near mouth PWMG 17	17	1998/08/17	8	1998	54-98-77	0.0423	18.3	0.05		5.3	0.05	3.58	10	57.8	0.9	0.6		
Mill Creek	Mill Creek below reservoir PWMG 20	20	1998/08/17	8	1998	54-98-79	0.143	9.84	0.05		4.3	0.05	17.8	100	84.5	0.8	0.8		
North River	North River Above Rte 885 Bridge PWMG 5	5	1998/08/17	8	1998	54-98-68	0.162	48.2	1.9		32.6	0.05	54.5	50	352	2.8	0.9		
North River	North River below bridge on Morton Rd PWMG 7	7	1998/08/17	8	1998	54-98-68	0.0543	50	2		34.8	0.05	3.13	40	383	3	1.8		
Pellicodiac River	Pellicodiac River Above French Brook PWMG 15	15	1998/08/17	8	1998	54-98-75	0.118	31.2	1		21.2	0.05	40.3	40	287	0.25	1		
Pellicodiac River	Pellicodiac River Above Rte 905 Bridge PWMG 3	3	1998/08/17	8	1998	54-98-64	0.422	62.8	3.7		36.1	0.05	56.5	70	434	3.2	1.5		
Pellicodiac River	Pellicodiac River at TCH Bridge PWMG 4	4	1998/08/17	8	1998	54-98-65	0.338	14.6	3.1		32.7	0.05	57.1	70	415	3	1.4		
Pellicodiac River	Pellicodiac River Below Rte 112 Bridge PWMG 16	16	1998/08/17	8	1998	54-98-76	0.107	21.7	0.05		12.1	0.05	21.3	30	196	1	1.9		
Pellicodiac River	Pellicodiac River near mouth of Pollitt R PWMG 10	10	1998/08/17	8	1998	54-98-69	0.104	44	1.5		34.2	0.05	57	50	414	2.6	2		
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	1998/08/17	8	1998	54-98-70	0.0729	10.7	0.05		3.4	0.05	2.42	20	35.8	0.7	1.2		
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	1998/08/17	8	1998	54-98-71	0.188	5.88	0.05		2	0.05	1.4	60	23.7	0.25	2.8		
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	1998/08/17	8	1998	54-98-72	0.155	6.48	0.05		2.4	0.05	1.44	50	25.6	0.25	2.2		
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	1998/08/17	8	1998	54-98-74	0.156	8.08	0.05		3	0.05	1.57	40	29.5	0.25	0.8		
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1998/08/17	8	1998	54-98-73	0.0427	20.8	0.05		6.3	0.05	1.92	5	54.3	1	0.25		
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	1998/08/17	8	1998	54-98-78	0.0647	6.92	0.05		2.9	0.05	1.84	20	33.8	0.4	0.25		
Waldon Creek	Waldon Creek D/S from Salem PWMG 32	32	1998/08/17	8	1998	54-98-80	0.0639	19.7	0.05		7.3	0.05	2.47	20	70.8	0.8	1.7		
Fox Creek	Fox Creek at route 106 PWMG 31	31	1998/08/18	8	1998	54-98-68	0.322	44	0.05		16.6	0.05	47.7	75	260	2.7	2.5		
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1998/08/18	8	1998	54-98-67	0.151	43.2	0.05		15.3	0.05	53.6	75	277	2.4	3		
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	1998/08/18	8	1998	54-98-66	0.082	27.9	0.05		11.3	0.05	1.66	75	191	1.5	1.8		
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	1998/08/18	8	1998	54-98-91	0.128	56.8	0.05		16.8	0.05	29.4	70	186	1.7	1.4		
Jones Lake	Jones Lake PWMG 22	22	1998/08/18	8	1998	54-98-89	0.196	49.8	0.05		19.8	0.05	45.5	70	266				

Appendix 2. Water quality data from the Petlicodiac watershed, 1975-1999

Water body	Station	Station PWMG #	FromDate	Month	Year	Field Number	Al (mg/L)	ALK G-T (mg/L)	As (µg/L)	BOD (mg/L)	Ca (mg/L)	Cd (µg/L)	Cl (mg/L)	CLRA (TCU)	COND (µSIE/cm)	Cr (µg/L)	Cu (µg/L)	DO (mg/L)	Client-ID
North River	North River below bridge on Morton Rd PWMG 7	7	1998/08/11	8	1998	54-98-245	0.0172	75.8	3.2		105	0.05	173	10	1310	7	0.7		
North River	North River Below Rte 112 Bridge PWMG 8	8	1998/08/11	8	1998	54-98-270	0.0893	82.6	5.3		98.7	0.05	108	15	1040	7.1	0.25		
Petlicodiac River	Petlicodiac River Above Rte 905 Bridge PWMG 3	3	1998/08/11	8	1998	54-98-241	0.0213	49.8	2.1		83.4	0.05	159	15	969	4.6	0.8		
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	1998/08/11	8	1998	54-98-242	0.019	52.4	2.1		65.9	0.05	170	15	1010	4.1	0.8		
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	1998/08/11	8	1998	54-98-248	0.0175	8.54	0.05		3	0.05	2.24	0	34.1	0.8	0.25		
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	1998/08/11	8	1998	54-98-249	0.0151	12.9	0.05		4.5	0.05	3.34	0	48.1	0.8	0.25		
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	1998/08/11	8	1998	54-98-251	0.013	17.9	0.05		7	0.05	3.68	0	65.6	2	0.25		
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1998/08/11	8	1998	54-98-250	0.0285	29.2	0.05		10	0.05	3.29	0	80	3.5	0.25		
Fox Creek	Fox Creek at route 106 PWMG 31	31	1998/08/12	8	1998	54-98-285	1.01	31.9	1.1		15.1	0.05	34.2	100	212	3	4.4		
Jonahhan Creek	Jonahhan Creek 7 - Below Horsman Road (PWMG 23)	23	1998/08/12	8	1998	54-98-288	0.258	68.3	0.05		31.4	0.05	72.3	50	417	1.1	2.7		
Little River	Little River near mouth PWMG 17	17	1998/08/12	8	1998	54-98-254	0.0138	25.9	0.05		9.9	0.05	10.2	5	103	1.8	0.5		
Mill Creek	Mill Creek below reservoir PWMG 20	20	1998/08/12	8	1998	54-98-256	0.0647	17.8	0.05		8.5	0.05	33	100	159	1.7	0.6		
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	1998/08/12	8	1998	54-98-289	0.128	76.4	2.9		45.5	0.05	11.3	30	341	4.5	0.25		
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	1998/08/12	8	1998	54-98-252	0.0168	31.6	0.05		28	0.05	64.1	5	398	2.4	0.7		
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	1998/08/12	8	1998	54-98-253	0.0154	31.9	0.05		25.6	0.05	57.4	5	365	1.6	0.7		
Petlicodiac River	Petlicodiac River near mouth of Pollitt R PWMG 10	10	1998/08/12	8	1998	54-98-246	0.0333	52.5	1.5		60.5	0.05	161	20	909	1	1.4		
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	1998/08/12	8	1998	54-98-247	0.0178	17.9	0.05		7.6	0.05	8.33	5	73.9	1.5	0.25		
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1998/08/12	8	1998	54-98-257	0.0212	35.2	1.1		19.1	0.05	7.53	5	165	2	0.9		
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1998/08/13	8	1998	54-98-264	0.373	47.9	1.2		26.5	0.05	98.1	100	481	4.5	3.6		
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	1998/08/13	8	1998	54-98-265	0.0096	58.3	0.05		24.8	0.05	53.8	40	316	3.5	1.3		
Jonahhan Creek	Jonahhan Creek PWMG 22	22	1998/08/13	8	1998	54-98-266	0.355	69.5	1.9		30.9	0.05	70	30	385	1.8	2.9		
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	1998/08/13	8	1998	54-98-262	0.0276	63.2	0.05		22.5	0.05	22.5	20	216	4	0.7		
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	1998/08/13	8	1998	54-98-259	0.129	121	0.05		56.6	0.05	130	20	701	8.1	5.8		
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1998/08/13	8	1998	54-98-260	0.173	115	0.05		48.4	0.05	124	40	670	4.5	5.6		
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	1998/08/13	8	1998	54-98-255	0.0382	22.5	0.05		7.3	0.05	2.52	30	65.6	1.4	0.25		
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	1998/08/13	8	1998	54-98-252	0.14	100	0.05		60.7	0.05	60.6	20	526	4.4	1.8		
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1998/08/13	8	1998	54-98-261	0.248	96.9	0.05		53.3	0.05	78.8	40	561	1.7	3.5		
Petlicodiac River	Petlicodiac River @ Stn 4	9	1998/08/02	9	1998	52-98-1165													
Anagance River	Anagance River Above Mouth PWMG 2 (en trip)	2	1998/08/13	9	1998		0.0805	25.9	0.05		9.23333333	0.05	21.9866667	30	137.866667	0.8	0.75		
Bennett Brook	Bennett Brook PWMG 6	6	1998/08/13	9	1998	54-98-368	0.0122	86.3	3.5		111	0.05	598	15	2440	3.8	10.8		
Fox Creek	Fox Creek at route 106 PWMG 31	31	1998/08/13	9	1998	54-98-369	0.37	33.1	0.05		15.7	0.05	13.4	150	220	2.3	1.9		
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1998/08/13	9	1998	54-98-394	0.168	43.4	0.05		20.8	0.05	75.7	40	359	1.1	0.9		
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	1998/08/13	9	1998	54-98-370	0.144	54	0.05		24.6	0.05	94.3	50	408	2.4	3.5		
Jonahhan Creek	Jonahhan Creek 7 - Below Horsman Road (PWMG 23) (en trip)	23	1998/08/13	9	1998		0.03866667	88.8666667	0.05		37.9	0.05	87.366667	26.666667	494.866667	2.2	1.26666667		
Jonahhan Creek	Jonahhan Creek PWMG 22	22	1998/08/13	9	1998	54-98-371	0.147	69	0.05		29.2	0.05	67.9	40	390	3.3	2.8		
Little River	Little River near mouth PWMG 17	17	1998/08/13	9	1998	54-98-372	0.0094	27	0.05		10.3	0.05	7.64	5	96.5	1.7	1.1		
Memramcook	Memramcook River @ Calhoun PWMG 35	35	1998/08/13	9	1998	54-98-629	0.344	6.48	0.05		6.2	0.05	9.38	150	74.7	0.25	1.1		
Mill Creek	Mill Creek below reservoir PWMG 20	20	1998/08/13	9	1998	54-98-373	0.163	19.7	0.05		8.2	0.8	33.7	75	165	1.6	2.4		
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	1998/08/13	9	1998	54-98-374	0.0417	67.2	0.05		21.3	0.05	22.7	20	211	3.1	2.3		
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	1998/08/13	9	1998	54-98-378	0.0529	71.9	2.3		42.9	0.05	14.7	40	329	3.2	0.8		
North River	North River Above Rte 885 Bridge PWMG 5	5	1998/08/13	9	1998	54-98-375	0.0058	75.8	1.8		98.7	0.05	86.7	20	672	3.8	3.3		
North River	North River below bridge on Morton Rd PWMG 7	7	1998/08/13	9	1998	54-98-376	0.0178	70.3	1.9		89	0.05	82.6	20	735	3.8	1.1		
North River	North River Below Rte 112 Bridge PWMG 8	8	1998/08/13	9	1998	54-98-377	0.0438	53.5	2.3		48.9	0.05	11.9	40	468	2.7	0.7		
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	1998/08/13	9	1998	54-98-381	0.0126	40.9	0.05		31.2	0.05	62.7	10	431	0.9	0.6		
Petlicodiac River	Petlicodiac River Above Rte 905 Bridge PWMG 3	3	1998/08/13	9	1998	54-98-379	0.0228	83.4	1.5		59	0.05	132	20	819	3	1.7		
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	1998/08/13	9	1998	54-98-380	0.0186	65.6	1.8		59.5	0.05	130	30	812	1.8	1.4		
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	1998/08/13	9	1998	54-98-382	0.0109	40.6	0.05		28.9	0.05	54.8	10	400	0.8	0.6		
Petlicodiac River	Petlicodiac River near mouth of Pollitt R PWMG 10	10	1998/08/13	9	1998	54-98-383	0.0111	64.8	1.1		58.8	0.05	122	15	789	1.9	3.3		
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	1998/08/13	9	1998	54-98-384	0.0129	18.5	0.05		6.6	0.05	5.42	5	73.9	0.25	0.5		
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	1998/08/13	9	1998	54-98-387	0.0227	8.78	0.05		3	0.05	2.28	10	35.2	0.25	0.6		
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	1998/08/13	9	1998	54-98-386	0.0193	14.9	0.05		4.9	0.05	3.16	5	50.7	0.25	0.8		
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	1998/08/13	9	1998	54-98-385	0.011	16.9	0.05		5.9	0.05	3.51	5	58.2	0.25	0.25		
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1998/08/13	9	1998	54-98-388	0.007	33.7	0.05		10.7	0.05	3.29	5	87.3	0.25	0.7		
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	1998/08/13	9	1998	54-98-390	0.195	83.3	0.05		33	0.05	82.8	40	469	3.3	5.3		
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1998/08/13	9	1998	54-98-389	0.352	88.8	0.05		33.8	0.05	75.5	30	449	3.5	6.8		
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	1998/08/13	9	1998	54-98-391	0.0511	29.1	2.2		8.1	0.05	3.26	50	83.5	0.8	0.25		
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1998/08/13	9	1998	54-98-392	0.013	42.2	1		23.4	0.05	8.08	5	202	0.5	0.25		
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	1998/08/13	9	1998	54-98-396	0.115	102	0.05		49.9	0.05	68.4	20	506	2.8	3.1		
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1998/08/13	9	1998	54-98-393	0.186	96.3	0.05		45.4	0.05	73.5	20	491	3	2.8		
Anagance River	Anagance River Above Mouth PWMG 2	2	1998/10/12	10	1998	54-98-404	0.137	14.1	0.05		6.2	0.05	15.2	100	96.5	0.9	0.7		
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	1998/10/12	10	1998	54-98-403	0.0861	15	0.05		5.9	0.05	14.9	70	98.9	1.7	0.8		
Bennett Brook	Bennett Brook PWMG 6	6	1998/10/12	10	1998	54-98-405	0.122	50.8	0.05		78.9	0.05	212	50	1150	2.9	2.2		
Fox Creek	Fox Creek at route 106 PWMG 31	31	1998/10/12	10	1998	54-98-406	0.009	19.8	0.05		9.1	0.05	23.7	200	140	1.8	2.4		
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1998/10/12	10	1998	54-98-431	0.133	39.4	0.05		17.2	0.05	55.3	100	288	1.8	2.3		
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	1998/10/12	10	1998	54-98-407	0.0851	23.2	0.05		12.6	0.05	44.8	75	215	1.5	1.5		
Jonahhan Creek	Jonahhan Creek 7 - Below Horsman Road (PWMG 23)	23	1998/10/12	10	1998	54-98-432	0.13	55	0.05		24.9	0.05	51.3	60	319	3.3	1.9		
Jonahhan Creek	Jonahhan Creek PWMG 22	22	1998/10/12	10	1998	54-98-408	0.152	54.1	0.05		23.7	0.05	44.4	100	300	3.2	6.2		
Little River	Little River near mouth PWMG 17 (en trip)	17	1998/10/12	10	1998		0.02946667	16.5666667	0.05		8.86666667	0.05	4.17	2					

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	FromDate	Month	Year	Field Number	Al (mg/L)	ALK G-T (mg/L)	As (µg/L)	BOD (mg/L)	Ca (mg/L)	Cd (µg/L)	Cl (mg/L)	CLRA (TCU)	COND (µSIE/cm)	Cr (µg/L)	Cu (µg/L)	DO (mg/L)	Client-Id
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	1998/10/12	10	1998	54-98-419	0.0885	24.5	0.05		17.5	0.05	27.5	40	219	1.6	1.4	9.8	
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	1998/10/12	10	1998	54-98-420	0.164	43.5	0.05		44.7	0.05	84.2	75	570	3.3	2.5	7	
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1998/10/12	10	1998	54-98-421	0.125	11.8	0.05		4.6	0.05	2.75	40	44.8	0.6	2.1	8.5	
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1998/10/12	10	1998	54-98-424	0.0618	8.36	0.05		2.7	0.05	1.98	20	30.4	0.25	0.9	11	
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	1998/10/12	10	1998	54-98-423	0.0474	10.7	0.05		3.9	0.05	2.46	20	40.9	0.25	0.25	11	
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	1998/10/12	10	1998	54-98-422	0.191	8.33	0.05		3.8	0.05	2.36	60	37.5	0.25	1.2	10.25	
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1998/10/12	10	1998	54-98-425	0.0451	23.2	0.05		7.8	0.05	2.43	10	63.9	0.9	1.7	9.35	
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	1998/10/12	10	1998	54-98-427	0.159	88.1	0.05		33.9	0.05	84.3	200	486	6.2	5.3	9.4	
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1998/10/12	10	1998	54-98-426	0.312	58.9	0.05		21.1	0.05	49.3	200	310	3.3	0.6	9	
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	1998/10/12	10	1998	54-98-428	0.064	21.4	0.05		7	0.05	3.51	40	54.7	0.6	0.6	11.1	
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1998/10/12	10	1998	54-98-429	0.128	12.3	0.05		8.2	0.05	2.83	50	390	2.9	2.3	9.8	
West Branch Halls Cree	West Branch Halls Creek @ Briardale St PWMG 27	27	1998/10/12	10	1998	54-98-433	0.0639	75.7	0.05		39.1	0.05	49	80	390	2.9	2.3	9.8	
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 28 (en h	28	1998/10/12	10	1998	54-98-433	0.12633333	73.9	0.05		34.43333333	0.05	56.9666667	233.3333333	390.3333333	3.73333333	4.3	8	
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		1999/08/09	8	1999	54-99-40	0.152	49.5	0.75		25.3	0.05	55.4	20	294	2.9	1.7		
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		1999/08/09	8	1999	54-99-30	0.037	68.1	0.75		37	0.05	11	5	238	3.4	0.25		
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		1999/08/09	8	1999	54-99-31	0.014	50.5	0.75		41.9	0.05	52.8	5	328	2.7	0.8		
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		1999/08/09	8	1999	54-99-32	0.022	64.7	0.75		7.42	0.05	78.4	30	431	3.0	0.7		
Jonathan Creek	Jonathan Creek 3 near exit ramp		1999/08/09	8	1999	54-99-33	0.016	70.5	0.75		41.1	0.05	82.8	20	434	3.5	0.8		
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		1999/08/09	8	1999	54-99-34	0.022	58	0.75		36.7	0.05	70	10	381	3.5	0.8		
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		1999/08/09	8	1999	54-99-35	0.025	68.9	0.75		34.2	0.05	65.8	10	388	3.5	0.7		
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		1999/08/09	8	1999	54-99-36	0.038	90.8	0.75		18.7	0.05	59.4	30	316	3.5	1.5		
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	1999/08/09	8	1999	54-99-37	0.028	61.6	0.75		32	0.05	64.8	10	359	3.5	0.7		
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		1999/08/09	8	1999	54-99-38	0.225	62.7	0.75		33.7	0.05	73.7	50	393	3.8	1.5		
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		1999/08/09	8	1999	54-99-39	0.07	56.3	0.75		28.8	0.05	65.8	10	328	2.8	1.8		
Anagance River	Anagance River Above Mouth PWMG 2	2	1999/08/21	8	1999	54-99-67	0.061	20.2	0.75		6.72	0.05	9.28	30	84.5	1.5	0.25		
Anagance River	Anagance River Above Rte 585 Bridge PWMG 1	1	1999/08/21	8	1999	54-99-63	0.036	20.8	0.75		6.58	0.05	11.8	70	91.7	1.8	0.25		
Bennett Brook	Bennett Brook near mouth PWMG 45	45	1999/08/21	8	1999	54-99-70	0.027	61.9	0.75		77.7	0.05	405	15	1680	3.9	2.6		
Little River	Little River below Prosser Brook PWMG 41	41	1999/08/21	8	1999	54-99-65	0.021	17.7	0.75		6.58	0.05	2.56	0	60.2	1.2	0.25		
Little River	Little River near mouth PWMG 17	17	1999/08/21	8	1999	54-99-74	0.026	16.4	0.75		7.48	0.05	5.72	5	75.9	1.1	0.25		
North River	North River Above Rte 585 Bridge PWMG 6	5	1999/08/21	8	1999	54-99-69	0.021	68.9	2.89		7.48	0.05	5.72	10	846	4.1	1.1		
North River	North River above Rte 580 crossing PWMG 43	43	1999/08/21	8	1999	54-99-72	0.025	78.3	2.49		83.1	0.05	114	20	924	4.3	1.1		
North River	North River below bridge on Morton Rd PWMG 7	7	1999/08/21	8	1999	54-99-71	0.022	64.3	2.14		88.9	0.05	186	30	1060	3.5	1.3		
North River	North River below Tingray Hill Bridge PWMG 40	40	1999/08/21	8	1999	54-99-71	0.013	71.7	2.98		93.7	0.05	231	10	1230	3.6	1.8		
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	1999/08/21	8	1999	54-99-75	0.028	24.4	0.75		20	0.05	41.7	5	270	1.1	0.5		
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	1999/08/21	8	1999	54-99-68	0.032	50.7	1.75		50.8	0.05	117	10	667	2.5	1		
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 18	18	1999/08/21	8	1999	54-99-73	0.024	21.3	1.87		17.1	0.05	34	5	230	1.5	0.25		
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	1999/08/21	8	1999	54-99-76	0.031	46.9	1.57		46.7	0.05	105	5	631	2.4			
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1999/08/21	8	1999	54-99-77	0.036	12.5	0.75		5.4	0.05	4.19	0	57.3	0.25	0.25		
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1999/08/21	8	1999	54-99-84	0.025	5.65	0.75		2.82	0.05	1.87	5	31.2	0.7	0.25		
Fox Creek	Fox Creek at route 106 PWMG 31	31	1999/08/22	8	1999	54-99-81	0.129	99.9	1.3		49.4	0.05	214	50	880	5.0	2.7		
Halls Creek	Halls Creek near mouth PWMG 44	44	1999/08/22	8	1999	54-99-79	0.2	45.2	0.75		23.8	0.05	79.9	40	407	2.9	1		
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1999/08/22	8	1999	54-99-80	0.047	80.2	0.75		27.7	0.05	61.8	80	384	3.9	1.7		
Memramcook	Memramcook River @ Calhoun PWMG 35	35	1999/08/22	8	1999	54-99-82	0.056	14.8	0.75		6.83	0.05	19.2	50	107	1.3	0.7		
Mill Creek	Mill Creek below reservoir PWMG 20	20	1999/08/22	8	1999	54-99-83	0.067	0.81	0.75		8.8	0.05	26.3	100	126	0.9	1		
North River	North River @ Pacific Junction Rd Bridge PWMG 9	9	1999/08/22	8	1999	54-99-73	0.025	89.3	2.29		51.3	0.05	13.8	10	387	3.7	0.25		
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1999/08/22	8	1999	54-99-84	0.016	29.9	1.2		23.3	0.05	7.9	0	210	1.3	0.7		
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		1999/07/12	7	1999	242-99-3082	0.454	84.8	0.5		36.4	0.05	133	50	544	5.4	3.1		
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		1999/07/12	7	1999	242-99-3052	0.016	77.6	0.5		37.5	0.05	10.1	15	247	5.1	0.25		
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		1999/07/12	7	1999	242-99-3053	0.018	61.2	1		48.4	0.05	58.8	15	398	4.7	0.25		
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		1999/07/12	7	1999	242-99-3054	0.042	83.9	0.5		39.5	0.05	81	30	418	4.7	0.7		
Jonathan Creek	Jonathan Creek 3 near exit ramp		1999/07/12	7	1999	242-99-3055	0.050	63.8	0.5		40.1	0.05	86.9	30	506	4.7	1		
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		1999/07/12	7	1999	242-99-3056	0.287	51	0.5		35.9	0.05	85.1	40	469	4.4	1.3		
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		1999/07/12	7	1999	242-99-3057	0.414	53.8	0.5		33.8	0.05	85.4	40	470	4.5	1.8		
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		1999/07/12	7	1999	242-99-3058	0.584	43.3	0.5		30.4	0.05	178	50	628	4	2.7		
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	1999/07/12	7	1999	242-99-3059	0.452	55.5	0.5		33.8	0.05	101	50	500	4.3	1.7		
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		1999/07/12	7	1999	242-99-3060	0.318	64.2	0.5		33.9	0.05	98.7	50	529	4.7	2.3		
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		1999/07/12	7	1999	242-99-3061	0.344	62.8	0.5		37.5	0.05	142	50	543	5.3	2.9		
Anagance River	Anagance River Above Rte 585 Bridge PWMG 1	1	1999/07/27	7	1999	54-99-180	0.023	25	0.05		6.86	0.05	12.7	70	101	2.1	0.25		
Bennett Brook	Bennett Brook near mouth PWMG 45	45	1999/07/27	7	1999	54-99-181	0.016	82	5.52		97.6	0.05	558	10	2300	4.8	3.8		
Fox Creek	Fox Creek at route 106 PWMG 31	31	1999/07/27	7	1999	54-99-182	0.278	102	1.32		43	0.05	90	15	548	7	2.2		
Halls Creek	Halls Creek near mouth PWMG 44	44	1999/07/27	7	1999	54-99-183	0.218	83.2	1		28.1	0.05	57.2	30	387	4.8	1.3		
North River	North River @ Pacific Junction Rd Bridge PWMG 9	9	1999/07/27	7	1999	54-99-186	0.036	80.8	2.78		48.3	0.05	16	10	378	4.3	0.5		
North River	North River Above Rte 585 Bridge PWMG 5	5	1999/07/27	7	1999	54-99-187	0.012	85.8	3.84		84.2	0.05	118	10	937	4.8	1		
North River	North River below bridge on Morton Rd PWMG 7	7	1999/07/27	7	1999	54-99-188	0.0079	75.7	2.35		92.2	0.05	157	10	1100	4	1.4		
Jones Lake	Jones Lake PWMG 22	22	1999/07/28	7	1999	54-99-184	0.031	65.3	1.39		26.7	0.05	66.6	20	382	3.7	2		
Memramcook	Memramcook River @ Calhoun PWMG 35	35	1999/07/28	7	1999	54-99-185	0.021	22.8	0.05		8.89	0.05	22.5	20	130	1.3	0.25		
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	1999/07/28	7	1999	54-99-190	0.014	37.8	0.05		35.3	0.05	78.5	5	508	2.4	0.8		
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	1999/07/28	7	1999	54-99-190	0.022	58.4	2.4		55.9	0.05	140	15	828	1.8	1.2		
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1999/07/28																

Appendix 2. Water quality data from the Petlicodiac watershed, 1975-1999

Water body	Station	Station PWMG #	FromDate	Month	Year	Field Number	Al (mg/L)	ALK, G-T (mg/L)	As (µg/L)	BOD (mg/L)	Ca (mg/L)	Cd (µg/L)	Cl (mg/L)	CLRA (TCU)	COND (µS/cm)	Cr (µg/L)	Cu (µg/L)	DO (mg/L)	Client-Id
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		1999/08/18	8	1999	242-99-3071	0.621		37	0.5	14.9	0.05	41	200	253	1.3	2.6		
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		1999/08/18	8	1999	242-99-3072	0.686		41	0.5	18.1	0.05	42.8	250	289	1.5	3		
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1999/08/19	8	1999	54-99-272	0.223		102	0.05	45.7	0.05	99	10	585	4.4	5.8		
Fox Creek	Fox Creek at route 108 PWMG 31	31	1999/08/29	8	1999	54-99-250	0.671		42.7	0.05	18	0.05	45.9	100	263	1.25	7.5	7.4	
Jones Lake	Jones Lake PWMG 22	22	1999/08/29	8	1999	54-99-253	0.065		52.3	1.02	21.4	0.05	52.2	30	313	3.1	3.5	6.1	
Little River	Little River below Prosser Brook PWMG 41	41	1999/08/29	8	1999	54-99-254	0.0092		32.8	0.05	11.5	0.05	3.41	5	87.1	2	1.2		
Little River	Little River near mouth PWMG 17	17	1999/08/29	8	1999	54-99-255	0.024		29.8	0.05	10.5	0.12	11.4	5	113	1.5	2.6		
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35	1999/08/29	8	1999		0.121		11.15	0.05	7.155	0.05	13.1	100	89.95	0.7	0.85	8.4	
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	1999/08/29	8	1999	54-99-258	0.034		83.3	2.83	53.5	0.05	13.5	10	407	3.4	0.7		
North River	North River Above Rte 885 Bridge PWMG 5	5	1999/08/29	8	1999	54-99-259	0.017		56.4	2.82	61.8	0.05	69.2	40	654	3	0.9	5.8	
North River	North River above Rte 880 crossing PWMG 43	43	1999/08/29	8	1999	54-99-260	0.017		55.7	2.51	62.4	0.05	87.3	40	756	2.8	1.1		
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	1999/08/29	8	1999	54-99-263	0.031		38.3	1.47	28.5	0.05	60.9	30	413	1.6	0.9	8.8	
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	1999/08/29	8	1999	54-99-265	0.025		33.1	1.17	24.1	0.05	49.4	30	340	1.4	0.7	9	
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1999/08/29	8	1999	54-99-269	0.21		102	0.05	45.5	0.05	108	20	620	5	6.2		
Walden Creek	Walden Creek D/S from Salem PWMG 32	32	1999/08/29	8	1999	54-99-270	0.0061		46.9	1.32	41.1	0.05	11.8	0	336	2.4	1	9.2	
Anagance River	Anagance River Above Mouth PWMG 2	2	1999/09/01	9	1999	54-99-247	0.035		25.1	0.05	8.25	0.05	12.3	60	98.9	3.1	0.5		
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	1999/09/01	9	1999	54-99-248	0.055		23.3	1.24	7.27	0.05	11.7	100	89.4	5.1	0.5	0.5	
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1999/09/01	9	1999	54-99-252	0.005		66.8	0.05	26.2	0.05	61.8	40	317	8.3	1.2	8.5	
Mill Creek	Mill Creek below reservoir PWMG 20	20	1999/09/01	9	1999	54-99-257	0.09		16.9	0.05	8.32	0.05	29.4	75	149	3.2	0.9	6.5	
North River	North River below bridge on Morton Rd PWMG 7	7	1999/09/01	9	1999	54-99-281	0.0064		54.8	1.86	70	0.05	120	50	822	7.4	1	8.8	
North River	North River below Tingley Hill Bridge PWMG 40	40	1999/09/01	9	1999	54-99-282	0.0034		73.9	3.18	96.7	0.05	223	20	1260	9.1	1.6	13.1	
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	1999/09/01	9	1999	54-99-284	0.0074		44.5	1.78	51.5	0.05	121	40	694	5.4	0.9	15.2	
Petlicodiac River	Petlicodiac River near mouth of Pollett R PWMG 10	10	1999/09/01	9	1999	54-99-286	0.0063		49.2	1.61	49.4	0.05	121	30	695	5.8	1	9.8	
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1999/09/01	9	1999	54-99-288	0.0059		18.8	0.05	8.09	0.05	7.82	0	81.7	2.2	0.25	8.6	
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1999/09/01	9	1999	54-99-287	0.0074		7.68	0.05	2.83	0.05	2.38	5	34.6	1	0.25		
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		1999/09/13	9	1999	242-99-3084	0.378		74	0.5	31.4	0.05	85.6	50	485	3.6	2.7		
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		1999/09/13	9	1999	242-99-3074	0.014		71.9	0.5	38.5	0.05	10.9	5	252	4.2	0.25		
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		1999/09/13	9	1999	242-99-3075	0.0096		80.4	0.5	40	0.05	83	15	353	3.4	0.6		
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		1999/09/13	9	1999	242-99-3076	0.03		85.5	0.5	37.4	0.05	83.5	40	396	4.1	1.2		
Jonathan Creek	Jonathan Creek 3 near exit ramp		1999/09/13	9	1999	242-99-3077	0.052		63.8	0.5	36.3	0.05	71.3	30	409	4.3	1		
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		1999/09/13	9	1999	242-99-3078	0.224		57.9	0.5	31.6	0.05	60.8	30	336	3.8	1		
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		1999/09/13	9	1999	242-99-3079	0.21		60.2	0.5	30.2	0.05	62.9	40	347	3.8	1.2		
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		1999/09/13	9	1999	242-99-3080	0.594		59	0.5	25.5	0.05	112	70	518	4	2.3		
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWGM 23)	23	1999/09/13	9	1999	242-99-3081	0.279		56.3	0.5	29.3	0.05	72.1	40	402	3.5	1.5		
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		1999/09/13	9	1999	242-99-3082	0.459		58.2	0.5	30.3	0.05	80.7	60	441	4	2		
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		1999/09/13	9	1999	242-99-3083	0.32		68.5	0.5	31.6	0.05	85	50	483	4	2.4		
Anagance River	Anagance River Above Mouth PWMG 2	2	1999/09/22	9	1999	54-99-353	0.785		14.2	0.05	5.83	0.05	18.4	150	109	3.1	1.4		
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	1999/09/22	9	1999	54-99-354	0.055		11.4	0.05	4.72	0.05	14.1	50	87.8	1.5	0.25		
Bennett Brook	Bennett Brook PWMG 6	6	1999/09/22	9	1999	54-99-355	1.28		22	3.9	39.8	0.05	72.6	150	527	3.7	2.1		
North River	North River Above Rte 885 Bridge PWMG 5	5	1999/09/22	9	1999	54-99-384	1.75		32.1	3.82	26.5	0.05	12.7	200	223	6	2.5		
North River	North River below bridge on Morton Rd PWMG 7	7	1999/09/22	9	1999	54-99-386	0.186		48.9	2.23	42.8	0.05	39.2	50	446	4	1		
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	1999/09/22	9	1999	54-99-370	0.303		41.6	2.04	35	0.05	68.2	150	482	5.5	2.5		
Anagance River	Anagance River Above Mouth PWMG 2	2	1999/10/03	10	1999	54-99-398	0.165		6.44	0.05	3.77	0.05	5.58	60	49.8	0.5	0.25	10.9	
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	1999/10/03	10	1999	54-99-397	0.111		6.13	0.05	3.42	0.05	5.37	70	45.7	1.2	0.25	5.9	
Bennett Brook	Bennett Brook PWMG 6	6	1999/10/03	10	1999	54-99-401	0.108		42.8	2.46	39.4	0.05	149	30	762	1.4	1.3	12.1	
Fox Creek	Fox Creek at route 108 PWMG 31	31	1999/10/03	10	1999	54-99-356	0.403		21.3	0.05	10.3	0.05	19.2	200	127	1.6	1.5	10.4	
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1999/10/03	10	1999	54-99-357	0.21		24.5	0.05	11.7	0.05	31	150	174	1.4	1.8	18	
Jones Lake	Jones Lake PWMG 22	22	1999/10/03	10	1999	54-99-358	0.48		29.8	0.05	15.3	0.05	23	100	175	1.8	4.5		
Little River	Little River below Prosser Brook PWMG 41	41	1999/10/03	10	1999	54-99-359	0.054		13.9	0.05	5.34	0.05	1.88	10	47.4	0.6	0.8	18.5	
Little River	Little River near mouth PWMG 17	17	1999/10/03	10	1999	54-99-360	0.068		14.1	0.05	5.36	0.05	3.12	10	564	0.8	0.5	14	
Memramcook	Memramcook River @ Calhoun PWMG 35	35	1999/10/03	10	1999	54-99-361	0.399		13.7	0.05	4.24	0.05	5.26	200	51.1	0.6	0.6	8.9	
North River	North River Above Rte 885 Bridge PWMG 5	5	1999/10/03	10	1999	54-99-400	0.129		31.7	1.83	29.3	0.05	28.6	75	285	1.4	0.8	11.5	
North River	North River below bridge on Morton Rd PWMG 7	7	1999/10/03	10	1999	54-99-402	0.173		26.2	1.72	27.7	0.05	32.9	100	300	1.3	0.8	10.8	
North River	North River below Tingley Hill Bridge PWMG 40	40	1999/10/03	10	1999	54-99-367	0.124		41.1	2.12	38.4	0.05	55.4	60	44.9	1.4	1	12.2	
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	1999/10/03	10	1999	54-99-368	0.122		18.6	0.05	13.2	0.05	17	40	447	0.7	0.8	10	
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	1999/10/03	10	1999	54-99-399	0.131		25.1	1.25	20.6	0.05	30.8	60	239	0.9	0.6	11.8	
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	1999/10/03	10	1999	54-99-369	0.118		18.2	0.05	11	0.05	13.9	40	156	0.8	0.8	10	
Petlicodiac River	Petlicodiac River near mouth of Pollett R PWMG 10	10	1999/10/03	10	1999	54-99-371	0.183		24.2	1.26	18.3	0.05	26.3	70	132	1.2	0.7	18	
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1999/10/03	10	1999	54-99-372	0.074		8.92	0.05	4.21	0.05	2.72	15	218	0.25	0.5	18	
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1999/10/03	10	1999	54-99-373	0.083		9.28	0.05	2.47	0.05	1.58	20	41	0.25	0.6		
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1999/10/03	10	1999	54-99-374	0.074		100	0.05	50.2	0.05	102	30	26.4	3.7	2.8	9.7	
Mill Creek	Mill Creek below reservoir PWMG 20	20	1999/10/07	10	1999	54-99-382	0.302		4.21	0.05	3.62	0.05	9.34	100	52.7	0.6	0.6	12.6	
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	1999/10/07	10	1999	54-99-383	0.124		42.8	1.59	24.4	0.05	9.85	40	196	5.5	0.7	12.7	
North River	North River above Rte 880 crossing PWMG 43	43	1999/10/07	10	1999	54-99-385	0.153		28.1	1.43	23.4	0.05	24.5	75	253	3.5	0.7	12.3	
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	1999/10/07	10	1999	54-99-432	0.073		8.92	0.05	4.26	0.05	2.35	15	39.6	1.6	0.5		
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26 (en d	26	1999/10/07	10	1999		0.064		74.05	0.05	36.35	0.05	49.35	30	389	8.65	1.4	11.02	
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		1999/10/25	10	1999	242-99-3095	0.268		30.5	0.5	14.1	0.05	26.8	60	170	2.1	1.8		
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		1999/10/25	10	1999	242-99-3095	0.061		33.2	0.5									

Appendix 2. Water quality data from the Petittcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	FromDate	Month	Year	Field Number	Al (mg/L)	ALK, G-T (mg/L)	As (µg/L)	BOD (mg/L)	Ca (mg/L)	Cd (µg/L)	Cl (mg/L)	CLRA (TCU)	COND (µS/cm)	Cr (µg/L)	Cu (µg/L)	DO (mg/L)	Client-ID
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	1999/10/27	10	1999	54-99-434	0.086	8.45	0.05	3.3	0.05	6.24	50	51	1	0.25			
Bennett Brook	Bennett Brook PWMG 6	6	1999/10/27	10	1999	54-99-435	0.07	38.4	2.07	39.1	0.05	144	20	780	1.9	1.3			
Mill Creek	Mill Creek below reservoir PWMG 20	20	1999/10/27	10	1999	54-99-442	0.314	1.91	0.05	2.62	0.05	5.8	100	40.4	0.25	0.6			
North River	North River Above Rte 885 Bridge PWMG 5	5	1999/10/27	10	1999	54-99-444	0.142	28.4	1.25	25.1	0.05	24.2	80	256	0.25	0.8			
North River	North River below bridge on Morton Rd PWMG 7	7	1999/10/27	10	1999	54-99-487	0.174	24.2	1.1	24.3	0.05	30.5	100	279	1.8	0.7			
North River	North River below Tingley Hill Bridge PWMG 40	40	1999/10/27	10	1999	54-99-446	0.117	38.4	1.5	38.9	0.05	56	60	402	1.5	0.8			
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	1999/10/27	10	1999	54-99-449	0.102	25.6	0.05	21.2	0.05	29.5	60	247	1.1	0.6			
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1999/10/27	10	1999	54-99-452	0.08	4.37	0.05	2.47	0.05	1.98	5	27.2	0.25	0.25			
Fox Creek	Fox Creek at route 106 PWMG 31	31	1999/10/31	10	1999	54-99-436	0.232	22.1	0.05	9.6	0.05	25.5	100	134	1.6	1.3			
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1999/10/31	10	1999	54-99-437	0.116	23.8	0.05	11.9	0.05	30.7	75	174	1.5	1.3			
Jones Lake	Jones Lake PWMG 22	22	1999/10/31	10	1999	54-99-438	0.162	34.7	0.05	15.6	0.05	25.3	70	184	2	4.3			
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35	1999/10/31	10	1999		0.2578	4.195	0.05	3.86	0.05	7.88	100	50.35	0.425	0.6			
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	1999/10/31	10	1999	54-99-443	0.078	50.5	1.32	27.2	0.05	9.07	30	214	0.7	0.5			
North River	North River above Rte 880 crossing PWMG 43	43	1999/10/31	10	1999	54-99-445	0.103	38.1	1.32	33.3	0.05	42.2	50	325	2	0.8			
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	1999/10/31	10	1999	54-99-447	0.06	23.8	0.05	15.6	0.05	23.2	30	190	1.2	0.5			
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	1999/10/31	10	1999	54-99-448	0.087	21.9	0.05	13.1	0.05	17.8	20	155	1	0.5			
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	1999/10/31	10	1999	54-99-450	0.096	28.9	0.05	23.4	0.05	32.8	40	263	1.5	0.7			
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1999/10/31	10	1999	54-99-451	0.048	11.8	0.05	4.15	0.05	2.78	5	43.8	0.25	0.25			
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	1999/10/31	10	1999	54-99-453	0.04	10.1	0.05	3.87	0.05	2.12	5	40.7	0.25	0.25			
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1999/10/31	10	1999	54-99-454	0.04	99.8	0.05	48.1	0.05	94.5	10	533	5.1	3			
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1999/10/31	10	1999	54-99-455	0.04	22.4	0.05	9.4	0.05	3.71	5	89.3	0.9	1.1			
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28	1999/10/31	10	1999	54-99-456	0.051	70.8	0.05	37.3	0.05	52.8	10	358	4	1.3			
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1999/11/02	11	1999	54-99-506	0.149	28.9	0.05	12.6	0.05	33.2	100	186	1.4	1.4			
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		2000/07/06	7	2000	54-00-101	0.118	43.8	0.5	18.6	0.05	32.2	70	237	2.8	1.4			
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		2000/07/06	7	2000	54-00-91	0.053	40.3	0.5	20.7	0.05	3.5	30	137	2.5	0.5			
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		2000/07/06	7	2000	54-00-92	0.07	47.5	0.5	23.1	0.05	31.3	50	234	2.9	1			
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		2000/07/06	7	2000	54-00-93	0.145	28.9	0.5	15.6	0.05	18.9	200	147	2.2	0.7			
Jonathan Creek	Jonathan Creek 3 near exit ramp		2000/07/06	7	2000	54-00-94	0.124	32.7	0.5	16.4	0.05	21.4	70	182	2.1	0.8			
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		2000/07/06	7	2000	54-00-95	0.12	28.9	0.5	15.2	0.05	22.1	70	183	2	0.8			
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		2000/07/06	7	2000	54-00-102	0.12	33.9	0.5	18.5	0.05	22.3	70	174	2.1	0.9			
Jonathan Creek	Jonathan Creek 6 - D/S from Berry Mills Road		2000/07/06	7	2000	54-00-96	0.112	30.4	0.5	15.9	0.05	23	70	170	2.8	0.9			
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		2000/07/06	7	2000	54-00-97	0.146	42.9	0.5	18.1	0.05	65.7	75	342	3.2	1.6			
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWGM 23)	23	2000/07/06	7	2000	54-00-98	0.125	30.5	0.5	15.3	0.05	25.7	70	186	2.3	1			
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		2000/07/06	7	2000	54-00-99	0.114	33.2	0.5	18.5	0.05	28.1	80	202	2.5	1.1			
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		2000/07/06	7	2000	54-00-100	0.116	42.3	0.5	18.8	0.05	32.4	70	228	2.5	1.2			
Anagance River	Anagance River Above Mouth PWMG 2	2	2000/08/14	8	2000	54-00-376	0.085	25.2	0.05	7.83	0.05	15.1	30	107	1.3	0.25			
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	2000/08/14	8	2000	54-00-371	0.04	26	0.05	7.61	0.05	17.2	50	118	2.8	0.9			
Bennett Brook	Bennett Brook PWMG 6	6	2000/08/14	8	2000	54-00-379	0.073	78.8	4.4	95.5	0.05	451	20	2070	5.3	2.4			
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		2000/08/14	8	2000	54-00-128	0.182	75.8	0.5	32.1	0.05	88	40	391	5.1	2.1			
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		2000/08/14	8	2000	54-00-118	0.022	73.4	0.5	34	0.05	7.3	5	223	6.2	0.5			
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		2000/08/14	8	2000	54-00-119	0.014	55.8	0.5	35.1	0.05	50.4	20	322	4.8	0.7			
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		2000/08/14	8	2000	54-00-120	0.111	57.2	0.5	36.0	0.05	42.7	40	289	5.4	0.9			
Jonathan Creek	Jonathan Creek 3 near exit ramp		2000/08/14	8	2000	54-00-121	0.054	58.9	0.5	30.7	0.05	49.4	40	308	4.7	0.8			
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		2000/08/14	8	2000	54-00-122	0.054	54.4	0.5	28.8	0.05	45.8	30	292	4.1	1			
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		2000/08/14	8	2000	54-00-123	0.049	61.3	0.5	28.3	0.05	47.3	30	301	4.4	0.8			
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		2000/08/14	8	2000	54-00-124	0.193	78.1	0.5	24.8	0.05	89.9	40	451	6.5	1.5			
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWGM 23)	23	2000/08/14	8	2000	54-00-125	0.081	62.4	0.5	28	0.05	53.7	40	325	4.3	1			
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		2000/08/14	8	2000	54-00-126	0.088	68.5	0.5	30	0.05	58	40	351	4.5	1.1			
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		2000/08/14	8	2000	54-00-127	0.113	76.7	0.5	32.7	0.05	68.2	30	396	5	1.5			
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		2000/08/14	8	2000	54-00-128	0.114	75.3	0.5	32.8	0.05	69.6	30	397	5.3	1.7			
Little River	Little River below Prosser Brook PWMG 41	41	2000/08/14	8	2000	54-00-373	0.021	25.9	0.05	8.74	0.05	3.3	0	73.7	1	0.5			
Little River	Little River near mouth PWMG 17	17	2000/08/14	8	2000	54-00-386	0.028	26.9	0.05	9.39	0.05	7.05	15	82.6	0.8	0.25			
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	2000/08/14	8	2000	54-00-387	0.123	65.7	2.84	39.1	0.05	13.2	40	307	3.1	0.25			
North River	North River Above Rte 885 Bridge PWMG 5	5	2000/08/14	8	2000	54-00-378	0.057	41.4	2.56	35.3	0.05	34.2	70	357	2.5	0.8			
North River	North River above Rte 880 crossing PWMG 43	43	2000/08/14	8	2000	54-00-381	0.083	35.6	2.18	34.8	0.05	36.6	75	378	2	1.1			
North River	North River below bridge on Morton Rd PWMG 7	7	2000/08/14	8	2000	54-00-380	0.059	36.8	2.09	33.9	0.05	42.4	70	380	2.5	0.8			
North River	North River below Tingley Hill Bridge PWMG 40	40	2000/08/14	8	2000	54-00-377	0.045	50.9	3.21	55.2	0.05	108	60	690	2.8	1.2			
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	2000/08/14	8	2000	54-00-384	0.028	38.6	1.24	28.1	0.05	41.8	30	324	1.8	0.6			
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	2000/08/14	8	2000	54-00-375	0.035	48.2	1.96	39.3	0.05	74.2	50	506	2.6	0.8			
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	2000/08/14	8	2000	54-00-385	0.024	34.2	1.05	23	0.05	35.7	30	280	1.7	0.6			
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	2000/08/14	8	2000	54-00-382	0.028	48.1	1.82	36	0.05	62.4	50	452	2.5	0.7			
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	2000/08/14	8	2000	54-00-383	0.03	20.2	0.05	7.2	0.05	5.2	5	71.2	0.7	0.25			
Pollett River	Pollett River @ Church's Corner PWMG 14	14	2000/08/14	8	2000	54-00-372	0.023	8.69	0.05	3.22	0.05	2.26	5	35.1	0.25	0.25			
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	2000/08/14	8	2000	54-00-374	0.018	16	0.05	6.36	0.05	3.34	5	58.3	0.5	0.25			
Fox Creek	Fox Creek at route 106 PWMG 31	31	2000/08/15	8	2000	54-00-393	0.335	68.8	0.05	27.2	0.05	51.5	80	340	3.4	2.2			
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	2000/08/15	8	2000	54-00-391	0.104	53.5	0.05	21.1	0.05	108	50	468	3	1.8			
Jones Lake	Jones Lake PWMG 22	22	2000/08/15	8	2000	54-00-389	0.092	64.2	0.05	24.8	0.05	63.9	40	352	3.4	2.3			
Memramcook	Memramcook River @ Calhoun PWMG 35	35	2000/08/15	8	2000	54-00-392	0.022	25.9	0.05	8.94	0.05	22.9	40	140	1.2	0.25			
Mill Creek	Mill Creek below reservoir PWMG 20	20	2000/08/15	8	2000	54-00-394	0.351	23.4	0.05	10.4	0.05	49.5	100	196	1.2</				

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	From Date	Month	Year	Field Number	Al (mg/L)	ALK G-T (mg/L)	As (µg/L)	BOD (mg/L)	Ca (mg/L)	Cd (µg/L)	Cl (mg/L)	CLRA (TCU)	COND (µSIE/cm)	Cr (µg/L)	Cu (µg/L)	DO (mg/L)	Client-Id
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		2000/09/07	9	2000	54-00-801	0.013	80	0.5		41.6	0.05	79.4	5	447	2.4	0.8		
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		2000/09/07	9	2000	54-00-802	0.015	79.9	0.5		33	0.05	70.9	5	447	2.5	0.8		
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		2000/09/07	9	2000	54-00-803	0.111	78	0.5		33.6	0.05	124	20	559	2.8	1.6		
Jonathan Creek	Jonathan Creek 7 - Below Horraman Road (PWMG 23)	23	2000/09/07	9	2000	54-00-804	0.03	81	0.5		39.4	0.05	86.4	5	475	2.8	1.2		
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		2000/09/07	9	2000	54-00-805	0.044	90.2	0.5		42.3	0.05	96.3	20	517	3.1	1.3		
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		2000/09/07	9	2000	54-00-806	0.033	94.3	0.5		39.2	0.05	98.6	15	573	3.2	1.6		
Anagance River	Anagance River Above Mouth PWMG 2	2	2000/09/24	9	2000	54-00-820	0.106	22.8	0.05		8.41	0.05	30.4	40	167	0.7	0.25	8.32	
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	2000/09/24	9	2000	54-00-821	0.043	25.6	0.05		7.14	0.05	12.7	70	102	0.9	0.25	2.96	
Bennett Brook	Bennett Brook PWMG 6	6	2000/09/24	9	2000	54-00-817	0.155	72.3	3.21		113	0.05	585	30	2340	2	3.5	6.78	
Fox Creek	Fox Creek at route 106 PWMG 31	31	2000/09/24	9	2000	54-00-807	1.09	89.5	0.05		34.9	0.05	65.5	200	418	3	2.2	8.81	
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	2000/09/24	9	2000	54-00-810	0.097	52	0.05		22.6	0.05	71.4	50	357	1.7	1.2	9.31	
Jones Lake	Jones Lake PWMG 22	22	2000/09/24	9	2000	54-00-809	0.235	72.4	0.05		29.3	0.05	72.8	60	415	2.6	2.8	8.76	
Little River	Little River below Prosser Brook PWMG 41	41	2000/09/24	9	2000	54-00-823	0.014	25.8	0.05		9.54	0.05	4	5	77.6	0.5	0.25	9.43	
Little River	Little River near mouth PWMG 17	17	2000/09/24	9	2000	54-00-803	0.041	80	1.1		21.2	0.05	175	50	745	2.6	1.9	10.9	
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35	2000/09/24	9	2000		0.1005	12.45	0.05		7.975	0.05	17.9	100	89.65	0.9	0.6	9.6	
Mill Creek	Mill Creek below reservoir PWMG 20	20	2000/09/24	9	2000	54-00-806	0.092	27.8	0.05		11.5	0.05	54.4	80	211	0.8	0.8	7.85	
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	2000/09/24	9	2000	54-00-824	0.044	74.9	2.05		50	0.05	15.1	30	375	1.8	0.25	10.01	
North River	North River Above Rte 885 Bridge PWMG 5	5	2000/09/24	9	2000	54-00-816	0.028	53.2	1.77		54.1	0.05	53.4	60	523	1.7	0.6	9.19	
North River	North River above Rte. 880 crossing PWMG 43	43	2000/09/24	9	2000	54-00-814	0.026	53.6	1.94		55.5	0.05	71.1	50	614	1.6	1.2	8.17	
North River	North River below bridge on Morton Rd PWMG 7	7	2000/09/24	9	2000	54-00-815	0.03	49.8	1.89		53.3	0.05	77.7	80	615	1.6	0.8	7.29	
North River	North River below Tingley Hill Bridge PWMG 40	40	2000/09/24	9	2000	54-00-819	0.012	62.7	2.22		74.6	0.05	167	40	976	1.9	1.2	9.19	
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	2000/09/24	9	2000	54-00-813	0.019	37	0.05		30.8	0.05	53.1	30	381	1.2	0.7	9.38	
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	2000/09/24	9	2000	54-00-818	0.03	54.7	1.57		54.7	0.05	126	40	729	1.5	0.9	8.98	
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16 (en dupl)	16	2000/09/24	9	2000		0.0185	34.9	0.05		26.4	0.05	45.8	20	328	1.05	1.05	11.3	
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	2000/09/24	9	2000	54-00-828	0.015	49	1.29		48.3	0.05	87.6	30	589	1.3	0.8	8.21	
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	2000/09/24	9	2000	54-00-827	0.016	16.8	0.05		7.83	0.05	6.32	5	71.4	0.25	0.25	9.67	
Pollett River	Pollett River @ Church's Corner PWMG 14	14	2000/09/24	9	2000	54-00-825	0.025	7.73	0.05		3.42	0.05	2.59	5	34.7	0.25	0.25	9.63	
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	2000/09/24	9	2000	54-00-822	0.014	15.8	0.05		6.5	0.05	3.76	5	58.2	0.25	0.25	10.19	
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	2000/09/24	9	2000	54-00-811		39.3	0.05		18.5	0.05	26.4	300	193	2.6	4.7	8.75	
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	2000/09/24	9	2000	54-00-808	0.012	44.8	1.12		33.9	0.05	10.4	0	273	1.2	0.25	9.23	
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28	2000/09/24	9	2000	54-00-812	0.466	62.3	0.05		36.2	0.05	46.6	400	357	2.3	2.9	8.37	
Anagance River	Anagance River Above Mouth PWMG 2	2	2000/10/29	10	2000	54-00-951	0.485	14.7	0.05		5.99	0.05	13.9	50	87	1	1	7.63	
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1 (en dupl)	1	2000/10/29	10	2000		0.1255	12.1	0.05		5.185	0.05	9.48	70	69.1	0.85	0.6	5.2	
Bennett Brook	Bennett Brook PWMG 6	6	2000/10/29	10	2000	54-00-953	0.429	56.4	2.52		54.1	0.05	142	50	809	2.6	2	7.57	
Fox Creek	Fox Creek at route 106 PWMG 31	31	2000/10/29	10	2000	54-00-954	1.05	13.4	0.05		7.12	0.05	17.6	400	110	2.6	3.8	10.85	
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	2000/10/29	10	2000	54-00-955	0.901	23.5	0.05		9.41	0.05	24.7	400	148	3.3	5.3	12.1	
Jones Lake	Jones Lake PWMG 22	22	2000/10/29	10	2000	54-00-956	0.584	45.1	0.05		20.2	0.05	37.1	250	237	2.9	5.7	11.58	
Little River	Little River below Prosser Brook PWMG 41	41	2000/10/29	10	2000	54-00-957	0.391	18.5	0.05		8.83	0.05	3.29	30	58.1	0.8	1.2	9.26	
Little River	Little River near mouth PWMG 17	17	2000/10/29	10	2000	54-00-958	0.452	21.9	0.05		7.94	0.05	5.44	40	84.2	1.1	2	12.1	
Memramcook	Memramcook River @ Calhoun PWMG 35	35	2000/10/29	10	2000	54-00-959	0.596	5.58	0.05		5.42	0.05	12.8	100	71.4	0.9	1.6	1.03	
Mill Creek	Mill Creek below reservoir PWMG 20	20	2000/10/29	10	2000	54-00-960	0.947	5.36	0.05		4.81	0.05	10.3	300	60.8	1.5	1.5		
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	2000/10/29	10	2000	54-00-961	0.776	24	1.23		13.7	0.05	10.5	75	120	1.8	2.3	11.43	
North River	North River Above Rte 885 Bridge PWMG 5	5	2000/10/29	10	2000	54-00-962	0.44	48.4	1.64		33.7	0.05	26.6	70	307	2.2	0.9	8.02	
North River	North River above Rte. 880 crossing PWMG 43	43	2000/10/29	10	2000	54-00-963	0.35	38.9	1.67		31.5	0.05	32	70	322	1.9	2.2	11.06	
North River	North River below bridge on Morton Rd PWMG 7	7	2000/10/29	10	2000	54-00-964	0.143	41.7	1.8		38.3	0.05	45.4	70	398	1.8	2.6	10.52	
North River	North River below Tingley Hill Bridge PWMG 40	40	2000/10/29	10	2000	54-00-965	0.496	58.6	2.1		48.1	0.05	59.2	80	477	2.6	3.9	8.68	
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	2000/10/29	10	2000	54-00-966	0.353	29	0.05		18.5	0.05	27.4	40	215	1.4	1.8	12.75	
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4 (en dupl)	4	2000/10/29	10	2000		0.453	45.05	1.805		37.6	0.05	58.7	60	429	1.8	1.4	9.44	
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	2000/10/29	10	2000	54-00-968	0.345	22.9	0.05		13.2	0.05	17.5	50	146	1	2.7	12.25	
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	2000/10/29	10	2000	54-00-969	0.446	38.3	1.16		29.6	0.05	50.2	60	354	1.8	1.6		
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	2000/10/29	10	2000	54-00-971	0.728	12.5	0.05		5.46	0.05	3.51	40	48.4	0.9	1.6		
Pollett River	Pollett River @ Church's Corner PWMG 14	14	2000/10/29	10	2000	54-00-970	0.108	5.8	0.05		2.9	0.05	2.56	30	30.9	0.25	1.1	9.78	
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	2000/10/29	10	2000	54-00-972	0.148	14.3	0.05		5.85	0.05	3.2	20	51.4	0.5	1.1	9.78	
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	2000/10/29	10	2000	54-00-973	0.887	36.5	1.21		13.2	0.05	26.6	500	181	3.8	6.8	11	
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	2000/10/29	10	2000	54-00-974	0.548	18.1	0.05		7.84	0.05	3.93	50	85.2	1	1.2	11.71	
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28	2000/10/29	10	2000	54-00-975	0.69	38.5	1.19		15.8	0.05	28.5	50	199	4.6	5.1	8.24	

Appendix 2. Water quality data from the Petiscodiac watershed, 1975-1999

Water body	Station	Station PWMG #	DO (mg/L)	Field-ELCE	coli-Average (MPN/100ml)	F (mg/L)	C-MF Average (CFU/100ml)	Fe (mg/L)	Hg (µg/L)	HARD (mg/L CaCO ₃)	K (mg/L)	Mg (mg/L)	Mn (mg/L)	Na (mg/L)	NH ₃ T (mg/L)	Ni (µg/L)	NO ₂ (mg/L)
Pollitt River	Pollitt River @ Stn 1																
Pollitt River	Pollitt River @ Stn 2																
Coverdale River	Coverdale River @ Stn 1																
Coverdale River	Coverdale River @ Stn 2																
Coverdale River	Coverdale River @ Stn 3																
Coverdale River	Coverdale River @ Stn 4																
Coverdale River	Coverdale River @ Stn 5																
Turtle Creek	Turtle Creek @ Stn 1																
Turtle Creek	Turtle Creek @ Stn 2																
Turtle Creek	Turtle Creek @ Stn 3																
Petiscodiac River	Petiscodiac River @ Stn 2																
Petiscodiac River	Petiscodiac River @ Stn 4																
Petiscodiac River	Petiscodiac River @ Stn 5																
Petiscodiac River	Petiscodiac River @ Stn 7																
Turtle Creek	Turtle Creek @ Stn 1																
Turtle Creek	Turtle Creek @ Stn 2																
Turtle Creek	Turtle Creek @ Stn 3																
Halls Brook	Halls Brook @ Stn 1																
Halls Brook	Halls Brook @ Stn 2																
Halls Brook	Halls Brook @ Stn 3																
Halls Brook	Halls Brook @ Stn 4																
Halls Brook	Halls Brook @ Stn 5																
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake																
Jonathan Creek	Jonathan Creek Past Berry Mills																
Petiscodiac River	Petiscodiac River @ Stn 1																
Petiscodiac River	Petiscodiac River @ Stn 1a																
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake																
Jonathan Creek	Jonathan Creek Past Berry Mills																
Halls Brook	Halls Brook @ Stn 2																
Halls Brook	Halls Brook @ Stn 3																
Halls Brook	Halls Brook @ Stn 4																
Halls Brook	Halls Brook @ Stn 5																
Halls Brook	Halls Brook @ Stn 1																
Coverdale River	Coverdale River @ Stn 1																
Halls Brook	Halls Brook @ Stn 2																
Halls Brook	Halls Brook @ Stn 4												2.04				
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake																
Jonathan Creek	Jonathan Creek Past Berry Mills																
Petiscodiac River	Petiscodiac River @ Stn 7																
Pollitt River	Pollitt River @ Stn 1																
Halls Brook	Halls Brook @ Stn 2																
Halls Brook	Halls Brook @ Stn 4																
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake																
Jonathan Creek	Jonathan Creek Past Berry Mills												2.26				
Coverdale River	Coverdale River @ Stn 1																
Petiscodiac River	Petiscodiac River @ Stn 1																
Petiscodiac River	Petiscodiac River @ Stn 7																
Pollitt River	Pollitt River @ Stn 1																
Jonathan Creek	Jonathan Creek Past Berry Mills																
Coverdale River	Coverdale River @ Stn 1																
Halls Brook	Halls Brook @ Stn 2																
Halls Brook	Halls Brook @ Stn 4																
Petiscodiac River	Petiscodiac River @ Stn 1																
Petiscodiac River	Petiscodiac River @ Stn 7																
Pollitt River	Pollitt River @ Stn 1																
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake																
Jonathan Creek	Jonathan Creek Above Stormsewer A																
Jonathan Creek	Jonathan Creek Above Stormsewer B																
Jonathan Creek	Jonathan Creek Below Park Culverts																
Jonathan Creek	Jonathan Creek Below Stormsewer																
Jonathan Creek	Jonathan Creek Past Berry Mills																
Jonathan Creek	Jonathan Creek Past Berry Mills																
Rabbit Brook	Rabbit Brook @ Stn 1																
Rabbit Brook	Rabbit Brook @ Stn 2																
Rabbit Brook	Rabbit Brook @ Stn 3																
Rabbit Brook	Rabbit Brook @ Stn 4																
Coverdale River	Coverdale River @ Stn 1																
Halls Brook	Halls Brook @ Stn 4																
Petiscodiac River	Petiscodiac River @ Stn 7																
Petiscodiac River	Petiscodiac River @ Stn 7																
Turtle Creek	Turtle Creek @ Stn 2																
Halls Brook	Halls Brook @ Stn 2																
Halls Brook	Halls Brook @ Stn 4																
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake																
Jonathan Creek	Jonathan Creek @ Junct Of Rte 126 & Tch																
Jonathan Creek	Jonathan Creek Past Berry Mills																
Petiscodiac River	Petiscodiac River @ Stn 1																

Appendix 2. Water quality data from the Pettitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	DO (mg/L)	Field-ELC ₅ coli-Average (MPN/100ml)	F (mg/L)	C-MF Average (CFU/100ml)	Fe (mg/L)	Hg (µg/L)	IARD (mg/L CaCO ₃)	K (mg/L)	Mg (mg/L)	Mn (mg/L)	Na (mg/L)	NH ₃ T (mg/L)	Ni (µg/L)	NO ₂ (mg/L)
Halls Brook	Halls Brook @ Stn 4															
Coverdale River	Coverdale River @ Stn 1															
Halls Brook	Halls Brook @ Stn 2															
Pettitcodiac River	Pettitcodiac River @ Stn 7															
Pollett River	Pollett River @ Stn 1															
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake															
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch															
Jonathan Creek	Jonathan Creek Past Berry Mills															
Coverdale River	Coverdale River @ Stn 1															
Halls Brook	Halls Brook @ Stn 2															
Halls Brook	Halls Brook @ Stn 4															
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake															
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch															
Jonathan Creek	Jonathan Creek Past Berry Mills															
Pettitcodiac River	Pettitcodiac River @ Stn 7															
Pollett River	Pollett River @ Stn 1															
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake															
Coverdale River	Coverdale River @ Stn 1															
Halls Brook	Halls Brook @ Stn 2															
Halls Brook	Halls Brook @ Stn 4															
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake															
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch															
Jonathan Creek	Jonathan Creek Past Berry Mills															
Pettitcodiac River	Pettitcodiac River @ Stn 7															
Pollett River	Pollett River @ Stn 1															
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake															
Coverdale River	Coverdale River @ Stn 1															
Halls Brook	Halls Brook @ Stn 2															
Halls Brook	Halls Brook @ Stn 4															
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake															
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch															
Jonathan Creek	Jonathan Creek Past Berry Mills															
Pettitcodiac River	Pettitcodiac River @ Stn 7															
Pollett River	Pollett River @ Stn 1															
Coverdale River	Coverdale River @ Stn 1							0.05				1.1				
Halls Brook	Halls Brook @ Stn 2							0.05				2.8				
Halls Brook	Halls Brook @ Stn 4							0.05				4.1				
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake							0.05				2.7				
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch							0.05				2.3				
Jonathan Creek	Jonathan Creek Past Berry Mills							0.05				2.7				
Pettitcodiac River	Pettitcodiac River @ Stn 1a							0.1				3.2				
Pettitcodiac River	Pettitcodiac River @ Stn 7							0.05				6.1				
Pollett River	Pollett River @ Stn 1							0.05				0.9				
Anagance River	Anagance River Above Mouth PWMG 2	2	10.5	38	0.05		40	0.377		14.1	0.42		0.666	4.7	0.019	5
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	7.7	106.5	0.05		85	0.519		14	0.47		1.1	0.131	4.8	0.018
Bennett Brook	Bennett Brook PWMG 8	6	12.2	114.5	0.05		90	0.124		109.1	0.85		3.4	0.05	100	0.005
Lillie River	Lillie River near mouth PWMG 17	17	11.8	21	0.05		10.5	0.091		15.8	0.39		0.8	0.014	2.7	0.005
North River	North River Above Rte 885 Bridge PWMG 5	5	11	38	0.05		24	0.269		80.8	0.88		3.3	0.029	20.8	0.076
North River	North River below bridge on Morton Rd PWMG 7	7	9.8	103.5	0.05		37.5	0.327		79.7	0.81		3.4	0.048	28.1	0.005
North River	North River Below Rte 112 Bridge PWMG 8	8	10.9	84	0.05		52	0.279		74.2	0.69		3.4	0.061	17.9	0.124
Pettitcodiac River	Pettitcodiac River Above French Brook PWMG 15	15	11.4	32.5	0.05		33	0.188		40.3	0.58		1.6	0.03	13.3	0.005
Pettitcodiac River	Pettitcodiac River Above Rte 905 Bridge PWMG 3	3	11.2	68.5	0.05		38	0.294		84.1	0.7		2.4	0.054	22.5	0.005
Pettitcodiac River	Pettitcodiac River at TCH Bridge PWMG 4	4	11.6	85.5	0.05		57	0.291		64.1	0.72		2.4	0.053	22.9	0.005
Pettitcodiac River	Pettitcodiac River Below Rte 112 Bridge PWMG 16	16	11.4	17.5	0.05		10.5	0.143		30.1	0.49		1.3	0.019	9.2	0.141
Pettitcodiac River	Pettitcodiac River near mouth of Pollett R PWMG 10	10	11.6	26.5	0.05		28	0.288		57.7	0.75		2.2	0.048	20.4	0.019
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	11.1	4	0.05		2.5	0.047		12.9	0.33		0.7	0.005	2.4	0.014
Prosser Brook	Prosser Brook near mouth PWMG 18	18	11.6	7	0.05		5	0.023		20.3	0.33		0.8	0.005	2.2	0.005
Fox Creek	Fox Creek at route 106 PWMG 31	31	11.3	37.5	0.05		47.5	0.87		37.4	0.617		2	0.151	18.7	0.005
Humphreys Brook	Humphreys Brook @ Stn 1	1		2419	0.18		3000	7.92		68.8	2.9		7.37	0.91	40.9	1.58
Jonathan Creek	Jonathan Creek Below Wheeler Blvd		11.1	1210	0.05		344	0.693		61.8	1.05		2.4	0.223	24.6	0.022
Jones Lake	Jones Lake PWMG 22	22	9.8	24190	0.117		2140	11.9		117.3	7.6		16.6	0.83	128	0.041
Turtle Creek	Turtle Creek @ Bypass Channel		10.9	2.5	0.05		2	0.161		12.9	0.442		0.7	0.052	2.3	0.005
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	12.2	13.5	0.05		8.5	0.031		34.8	0.446		1.5	0.005	5	0.005
West Branch Halls Creek	West Branch Halls Creek @ Meadowdale Rd		11.8	322	0.101		168	0.474		111.8	1.25		4.6	0.195	33.3	0.039
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28	12.3	350	0.06		185	0.451		120.8	1.21		4.9	0.246	37.1	0.005
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	9.8	38	0.05		32	0.424		41	0.779		2.2	0.087	22.8	0.021
Mill Creek	Mill Creek below reservoir PWMG 20	20	9.5	16.6	0.05		17.5	0.84		14.4	0.484		0.7	0.122	11	0.01
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	10.3	11.5	0.05		6.5	0.2		63.9	1.014		2.9	0.145	12.1	0.005
North River	North River @ Pacific Junct Rd Bridge PWMG 9	9	9.8	30.5	0.05		28	0.22		96.4	0.803		4.8	0.049	9.4	0.005
Pettitcodiac River	Pettitcodiac River @ Causeway Fishway PWMG 21	21	9	17	0.05		22	0.188		50.4	1.74		4.6	0.078	38.2	0.005
Pollett River	Pollett River @ Church's Corner PWMG 14	14	9.3	6	0.05		4	0.019		9.2	0.245		0.8	0.005	1.9	0.005
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	9.3	13	0.05		14.5	0.029		12.8	0.324		0.7	0.005	2.2	0.005
Pollett River	Pollett River east of Pollett R Salliment PWMG 12	12	10.7	11	0.05		9	0.017		15	0.356		0.8	0.005	2.4	0.005
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	9.8	5150	0.101		5000	0.424		183.7	2.38		6.8	0.228	85.7	0.066
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	10	9450	0.135		7250	1.12		141.7	2.29		5.3	0.486	72.7	0.27
Anagance River	Anagance River Above Mouth PWMG 2	2	9.2	98	0.05		84	1.174		18.7	0.382		1.2	0.07	5.8	0.023
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	5.7	122	0.05		84	1.403		16.4	0.345		1.2	0.319	4.8	0.044
Bennett Brook	Bennett Brook PWMG 8	6	11.1	40	0.05		20.5	0.093		89.3	0.72		2.7	0.022	80	0.005
Fox Creek	Fox Creek at route 106 PWMG 31	31	8.2	845	0.119		290	1.354		75.7	1.2		3.8	0.204	31.9	0.064
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	9.8	76	0.422		150	1.015		53.1	0.814		2.7	0.254	22.7	0.055
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	9.8	108.5	0.132		41	0.501		51	0.88		2.5	0.083	26.5	0.031
Mill Creek	Mill Creek below reservoir PWMG 20	20	8.9	39	0.05		5	1.286		18.4	0.344		0.9	0.144	12.4	0.047
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	9.5	17.5	0.05		13	0.258		62.5	0.842		2.8	0.107	11.1	0.016
North River	North River @ bridge (Fawcett-Wheeler Selt) PWMG 7	7	9.8	49	0.05		10	0.423		122.2	0.671		5	0.055	51.1	0.021
North River	North River @ Pacific Junct Rd Bridge PWMG 9	9	9.1	11	0.05		10	0.223		128.7	0.887		6.2	0.028	9.8	0.017
North River	North River Above Rte 885 Bridge PWMG 5	5	11.8	31	0.05		28.5	0.21		115.9	0.736		4.8	0.02	34.7	0.006
North River	North River Below Rte 112 Bridge PWMG 8	8	10.1	124	0.05		100	0.357		124.1	0.493		5.4	0.016	38.5	0.017
Pettitcodiac River	Pettitcodiac River @ Causeway Fishway PWMG 21	21	9.9	325	0.05		88	0.442		29.2	0.914		1.4	0.065	7.9	0.02

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	DO (mg/L) Field-ELC	col-Average (MPN/100ml)	F (mg/L)	C-MF Average (CFU/100ml)	Fe (mg/L)	Hg (µg/L)	HARD (mg/L CaCO3)	K (mg/L)	Mg (mg/L)	Mn (mg/L)	Na (mg/L)	NH3T (mg/L)	Ni (µg/L)	NO2 (mg/L)
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	12.2	53	0.06	32	0.41	103.1	0.721	3.4	0.039	39.1	0.005	5		
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	12.1	141	0.05	98	0.533	88.8	0.653	3	0.046	33.5	0.021	5		
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	9.6	2419	0.171	300	0.317	204.9	1.75	7	0.137	66.6	0.039	5		
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	10.8	2419	0.211	300	0.682	183.9	1.48	6.7	0.15	69	0.13	5		
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	9.5	7	0.05	4.5	0.005	65.9	0.695	2.6	0.005	9.5	0.005	5		
Jonathan Creek	Jonathan Creek Below Horman Road PWMG 23 (en dupl)	23	10.8	2419	0.199	300	0.352	70.2	0.6705	2.4	0.0555	23.35	0.0175	5		
Jones Lake	Jones Lake PWMG 22	22	8	250	0.145	164	1.311	61.4	1.09	2.3	0.359	25.4	0.015	5		
Little River	Little River near mouth PWMG 17	17	9.5	57	0.05	24	0.069	25.5	0.508	1.1	0.016	4.8	0.005	5		
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	11.2	132.5	0.05	108	0.328	72.6	0.672	2.6	0.033	26.9	0.01	5		
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	11.4	46.5	0.05	44	0.21	57.1	0.565	2.1	0.015	20.3	0.01	5		
Petitcodiac River	Petitcodiac River near mouth of Pollett R. PWMG 10	10	11.9	292	0.05	167	0.427	86.1	0.648	2.9	0.036	33.1	0.017	5		
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	9.7	28.5	0.05	16	0.037	20.3	0.422	1	0.005	3.6	0.005	5		
Pollett River	Pollett River @ Church's Corner PWMG 14	14	10	10.5	0.05	7.5	0.017	10.6	0.197	0.7	0.005	2.2	0.005	5		
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	9.7	6	0.05	11	0.022	13.9	0.329	0.7	0.005	2.4	0.005	5		
Prosser Brook	Prosser Brook east of Pollett R. Settlement PWMG 12	12	10.9	15	0.05	8.5	0.012	17.7	0.335	0.9	0.005	2.6	0.01	5		
Prosser Brook	Prosser Brook near mouth PWMG 18	18	9.8	29	0.05	21.5	0.005	26.4	0.437	0.9	0.005	2.6	0.022	5		
Turtle Creek	Turtle Creek @ Bypass Channel	10.3	8	8	0.06	1.5	0.171	15.8	0.411	0.4	0.092	2.6	0.022	5		
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	10.2	420	0.15	252	0.368	139	1.28	5.9	0.141	29.9	0.029	5		
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	10.4	585	0.05	296	0.46	141.7	1.29	5.9	0.144	39.1	0.038	5		
Anagance River	Anagance River Above Mouth PWMG 2	2	8.5	132	0.05	103	0.696	26.8	0.527	1.6	0.043	6	0.005	5		
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	4.3	119.5	0.05	78	0.668	20.4	0.362	1.9	0.163	7.7	0.013	5		
Bennett Brook	Bennett Brook PWMG 6	6	10.8	161	0.05	151.5	0.105	190	1.49	5.7	0.036	221	0.006	5		
Little River	Little River near mouth PWMG 17	17	10.9	19.5	0.05	4	0.07	26.7	0.612	1.2	0.02	6.7	0.005	5		
Mill Creek	Mill Creek below reservoir PWMG 20	20	5.7	12.5	0.133	8.5	1.715	25.8	0.531	1.3	0.448	16	0.065	5		
North River	North River @ bridge (Fawcett-Wheaton Sett) PWMG 7	7	9.6	86.5	0.112	34.5	0.111	247.9	1.28	10.3	0.065	116	0.005	5		
North River	North River Above Rte 885 Bridge PWMG 5	5	10.8	26	0.102	21	0.021	218.3	1.39	8.7	0.017	78.3	0.005	5		
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	9.4	74	0.05	67	0.051	96.1	0.949	3.6	0.021	46	0.005	5		
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	10.3	47	0.05	49	0.239	161.9	1.13	5.6	0.026	83	0.005	5		
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	13.2	96.5	0.05	80.5	0.224	154.7	1.24	5.3	0.027	79.4	0.005	5		
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	10.4	13	0.05	8	0.035	82.2	0.792	3.1	0.019	37.1	0.005	5		
Petitcodiac River	Petitcodiac River near mouth of Pollett R. PWMG 10	10	12	7.5	0.05	5	0.068	149.5	1.24	5.2	0.012	75.3	0.005	5		
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	8.9	8.5	0.05	19.5	0.038	24	0.466	1.1	0.01	5	0.005	5		
Pollett River	Pollett River @ Church's Corner PWMG 14	14	8.6	10	0.05	3	0.021	11.8	0.276	0.7	0.005	3.2	0.005	5		
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	9.1	15.5	0.05	19.5	0.029	14.5	0.348	0.8	0.005	3	0.005	5		
Pollett River	Pollett River east of Pollett R. Settlement PWMG 12	12	9.6	5	0.05	1.5	0.019	20.3	0.433	1	0.005	3.3	0.005	5		
Prosser Brook	Prosser Brook near mouth PWMG 18	18	9.5	33.5	0.05	16.5	0.005	31.2	0.535	1.1	0.005	3.5	0.005	5		
Turtle Creek	Turtle Creek @ Bypass Channel	9.9	25.5	25.5	0.05	19.5	0.493	16.9	0.499	0.9	0.438	3.6	0.061	5		
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	8.6	49.5	0.05	41.5	0.017	79.9	0.806	3.1	0.005	12.4	0.005	5		
Fox Creek	Fox Creek at route 106 PWMG 31	31	7.9	585	0.14	470	0.537	134.8	2.81	7.4	0.205	70.2	0.043	5		
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	6.3	506	0.271	525	0.759	81.4	1.58	4	0.416	30.1	0.024	5		
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	6.8	97	0.106	93	0.147	66.1	1.01	3.2	0.094	29.5	0.005	5		
Jonathan Creek	Jonathan Creek Below Horman Road PWMG 23	23	9.1	1030	0.147	1050	0.528	102.1	1.89	3.5	0.213	38.4	0.005	5		
Jones Lake	Jones Lake PWMG 22	22	5.8	290	0.301	960	0.94	84.8	1.7	3.5	0.34	34.2	0.005	5		
North Branch Halls Creek	North Branch Halls Creek PWMG 26	26	9.6	85.5	0.05	50	0.325	69.9	0.943	3.2	0.184	11.7	0.005	5		
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	9.3	94.5	0.05	70	0.141	175.2	0.882	8.4	0.036	12.9	0.005	5		
North River	North River Below Rte 112 Bridge PWMG 5	5	9.5	249	0.127	220	0.105	238.4	1.08	10.3	0.056	72.1	0.005	5		
Petitcodiac River	Petitcodiac River @ Causeway Fishway PWMG 21	21	8.1	50	0.05	100	0.265	69.3	2.52	7	0.04	59.8	0.005	5		
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	6.9	1325	0.119	1175	0.331	230.7	2.44	8.3	0.11	77	0.005	5		
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	4.9	550	0.162	855	1.051	168.9	2.45	6.4	0.285	68.4	0.182	5		
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	8.6	540	0.117	590	0.288	177.7	1.54	6.7	0.16	35.7	0.005	5		
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	6.4	438	0.129	540	0.407	159	1.71	6.3	0.206	36.6	0.046	5		
Memramcook	Memramcook River @ Calhoun PWMG 35	35		60	0.05	40	0.328	22.2	0.584	1.6	0.059	10.6	0.012	5		
Memramcook	Memramcook River @ College Bridge PWMG 36	36		890	0.281	900	0.957	523.2	48.4	100.7	0.07	1080	0.31	5		
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9		26.5	0.05	16.5	0.206	106.7	0.762	5.3	0.026	10	0.005	5		
North River	North River below bridge on Morton Rd PWMG 7	7		63.5	0.05	39.5	0.308	78.9	0.708	3.4	0.021	22.9	0.005	5		
North River	North River Below Rte 112 Bridge PWMG 8	8		1013	0.05	300	0.362	74.2	0.635	3.4	0.034	18.2	0.005	5		
Anagance River	Anagance River Above Mouth PWMG 2	2		36.5	0.05	37.5	0.714	28.8	0.87	1.8	0.052	11.4	0.005	5		
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1 (en trip)	1		41 5000	0.0500	35 0000	0.7637	22 4667	0.6900	1.8000	0.1317	9 8000	0.0050	5 0000		
Bennett Brook	Bennett Brook PWMG 6	6		125	0.109	42.5	0.129	282.3	0.341	9	0.005	375	0.005	5		
Fox Creek	Fox Creek at route 106 PWMG 31	31		120	0.186	125	1.188	97.8	2.8	5.2	0.377	56	0.186	5		
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29		30	0.113	15	0.152	59.4	0.917	3.2	0.069	32.8	0.005	5		
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30		307.5	0.184	180	0.959	76	1.51	3.9	0.396	48.4	0.082	5		
Jonathan Creek	Jonathan Creek 7 - Below Horman Road (PWMG 23)	23		830	0.05	610	0.413	59	1.18	2.2	0.039	23.4	0.018	5		
Jones Lake	Jones Lake PWMG 22	22		155	0.158	200	0.898	61.1	2.45	2.9	0.452	30.2	0.107	5		
Little River	Little River near mouth PWMG 17	17		39.5	0.05	20	0.081	28.7	0.85	1.2	0.018	6.1	0.005	5		
Memramcook	Memramcook River @ Calhoun PWMG 35	35		44.5	0.05	34	0.435	21.5	0.646	1.18	0.6	7.89	0.005	15		
Memramcook	Memramcook River @ College Bridge PWMG 36	36		410	0.454	300	20.4	2409	6.24	479	0.075	4070	0.21	5		
Mill Creek	Mill Creek below reservoir PWMG 20	20		35.5	0.158	20	1.643	34.7	0.749	1.7	0.484	36.5	0.043	5		
North Branch Halls Creek	North Branch Halls Creek PWMG 26	26		51	0.05	32	0.29	69.4	1.01	3.2	0.145	13.3	0.017	5		
North River	North River Above Rte 885 Bridge PWMG 5	5		235	0.05	144	0.2	89.4	0.623	3.7	0.016	23.3	0.011	5		
Petitcodiac River	Petitcodiac River @ Causeway Fishway PWMG 21	21		165	0.05	92	0.09	114.4	4.97	13.6	0.066	127	0.005	5		
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15		95	0.05	72.5	0.239	83.9	1.01	3.4	0.033	34	0.005	5		
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16		71.5	0.05	60	0.191	66.2	0.907	2.8	0.024	27	0.005	5		
Petitcodiac River	Petitcodiac River near mouth of Pollett R. PWMG 10 (en trip)	10		90	0.05	81	0.2536667	87.8	1.02	3.6	0.04333333	38.0666667	0.01033333	5		
Pollett River	Pollett River 1km Above Mouth PWMG 11	11		49	0.05	38	0.039	24.4	0.517	1.2	0.005	5.3	0.005	5		
Pollett River	Pollett River @ Church's Corner PWMG 14	14		14	0.05	2	0.021	11.1	0.237	0.7	0.005	2.4	0.005	5		
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13		25.5	0.05	22.5	0.033	14.8	0.331	0.6	0.013	2.7	0.005	5		

Appendix 2. Water quality data from the Petlicodioc watershed, 1975-1999

Water body	Station	Station PWMG #	DO (mg/L)	Field-ELCE	col-Average (MPN/100ml)	F (mg/L)	FC-MF Average (CFU/100ml)	Fe (mg/L)	Hg (µg/L)	HARD (mg/L CaCO ₃)	K (mg/L)	Mg (mg/L)	Mn (mg/L)	Na (mg/L)	NH ₃ T (mg/L)	Ni (µg/L)	NO ₂ (mg/L)
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	5.5	0.05		2	0.018	20.1	0.409	1	0.005	3.4	0.005	5			
Prosser Brook	Prosser Brook near mouth PWMG 18	18	8	0.05		8.5	0.021	33.9	0.516	1.2	0.005	3.7	0.005	5			
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	250	0.124		155	0.373	166.4	2.04	6.4	0.048	72.9	0.016	5			
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	7285	0.138		3000	0.853	147.6	2.34	5.9	0.278	70.4	0.158	5			
Turtle Creek	Turtle Creek @ Bypass Channel (en trip)	3	3	0.116		3.5	1.871	24.33333333	0.60366667	1.13333333	2.30666667	8.36666667	0.22733333	5			
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	298.5	0.05		300	0.086	99.6	0.728	2.9	0.016	10.9	0.005	5			
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	243	0.145		138	0.496	136.3	1.84	5.7	0.189	35.3	0.029	5			
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28	345	0.141		355	0.829	133.9	1.79	5.8	0.205	42	0.039	5			
Petlicodioc River	Petlicodioc River Above Rte 905 Bridge PWMG 3	3	32.5	0.05		32.5	0.248	121.7	0.025	4.4	0.005	54	0.013	5			
Petlicodioc River	Petlicodioc River at TCH Bridge PWMG 4	4	66	0.06		48.5	0.27	111	0.025	4.1	0.005	49	0.005	5			
Anagance River	Anagance River Above Mouth PWMG 2	2	17.5	0.05		5.5	0.507	27.4	0.504	1.81	0.033	11.05	0.005	25			
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	13.5	0.05		5.5	0.507	21.5	0.494	1.89	0.056	9.94	0.005	5			
Bennett Brook	Bennett Brook PWMG 6	6	10	0.104		9.5	0.142	366.4	1.69	10.75	0.035	473	0.005	5			
Fox Creek	Fox Creek at route 106 PWMG 31	31	280	0.164		150	1.067	116.9	2.66	6.4	0.189	55.58	0.04	5			
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	1.5	0.112		1.5	0.106	65.1	1.4	3.42	0.049	36.8	0.005	5			
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	85	0.273		126	1.215	85	1.61	4.4	0.472	36.91	0.029	5			
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	660	0.106		540	0.43	95.5	1.82	3.43	0.064	31.32	0.005	5			
Jones Lake	Jones Lake PWMG 22	22	820	0.166		700	3.73	94.4	2.62	5.63	0.812	46.09	0.008	5			
Little River	Little River near mouth PWMG 17	17	1.5	0.05		0.5	0.053	34	0.635	1.4	0.005	7.36	0.005	5			
Mill Creek	Mill Creek below reservoir PWMG 20	20	2	0.05		0.5	0.826	25.7	0.736	1.27	0.097	22.34	0.011	5			
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	2	0.05		1.5	0.159	69.4	1.13	3.2	0.052	12.06	0.005	5			
North River	North River @ Pacific Junc Rd Bridge PWMG 9 (en trip)	9	1	0.05		1.5	0.14	171.4	0.827	6.31	0.02033333	12.89666667	0.005	5			
North River	North River Above Rte 885 Bridge PWMG 5	5	3	0.05		0	0.053	213.9	1.06	6.4	0.005	64.76	0.005	5			
North River	North River below bridge on Morton Rd PWMG 7	7	6	0.05		3	0.147	213.2	0.988	6.72	0.018	63.54	0.005	5			
North River	North River Below Rte 112 Bridge PWMG 8	8	27.5	0.05		17	0.153	197.3	0.829	8.5	0.019	51.49	0.005	5			
Petlicodioc River	Petlicodioc River @ Causeway Flatway PWMG 21	21	265	0.05		182	0.151	126.7	4.79	14.28	0.04	129	0.005	5			
Petlicodioc River	Petlicodioc River Above French Brook PWMG 15	15	10.5	0.05		10	0.084	125.4	0.975	4.6	0.01	63.45	0.005	5			
Petlicodioc River	Petlicodioc River Above Rte 905 Bridge PWMG 3	3	511.6	0.05		156	0.216	196.4	1.21	7.05	0.039	103	0.224	5			
Petlicodioc River	Petlicodioc River at TCH Bridge PWMG 4	4	180	0.05		32	0.195	195.2	1.23	6.9	0.019	101	0.086	5			
Petlicodioc River	Petlicodioc River Below Rte 112 Bridge PWMG 16	16	10.5	0.05		4	0.077	110.2	0.907	4.1	0.005	53.64	0.005	5			
Petlicodioc River	Petlicodioc River near mouth of Pollitt R PWMG 10	10	4.5	0.05		3.5	0.134	172.1	1.1	6.14	0.014	91.7	0.005	5			
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	6	0.05		3.5	0.035	26.8	0.469	1.29	0.005	5.59	0.005	5			
Pollitt River	Pollitt River @ Church's Corner PWMG 14 (en trip)	14	2	0.05		1	0.01633333	11.33333333	0.126	0.72333333	0.005	2.26333333	0.005	5			
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	0.5	0.05		1.5	0.035	16.4	0.353	0.87	0.005	2.78	0.005	5			
Pollitt River	Pollitt River east of Pollitt R Settlement (en trip)	12	4	0.05		7	0.035	22.9	0.4	1.15	0.005	3.45	0.005	5			
Prosser Brook	Prosser Brook near mouth PWMG 18	18	2	0.05		2	0.023	34	0.51	1.18	0.005	3.56	0.005	5			
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25 (en trip)	25	120	0.21066667		85	0.215	226.4666667	2.26333333	8.3	0.03233333	81.44	0.005	5			
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1435	0.201		640	0.947	219.2	2.21	6.54	0.314	62.36	0.202	5			
Turtle Creek	Turtle Creek @ Bypass Channel	3	0.5	0.159		0.5	0.627	30.1	0.87	1.37	0.532	12.39	0.049	5			
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	2.5	0.05		0.5	0.023	99.8	0.64	3.96	0.005	14.67	0.005	5			
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	40.5	0.15		38.5	0.279	181.6	1.46	6.91	0.124	33.42	0.005	5			
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28	85	0.136		40	0.447	177.2	1.59	6.97	0.146	40.26	0.019	5			
Anagance River	Anagance River Above Mouth PWMG 2	2	403	0.05		110	0.782	18.6	0.433	1.3	0.099	8.1	0.028	5			
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	179	0.05		120	0.906	17.7	0.435	1.5	0.242	7.5	0.033	5			
Bennett Brook	Bennett Brook PWMG 6	6	9.5	0.05		300	0.411	106.3	0.883	4.4	0.117	70	0.025	5			
Little River	Little River near mouth PWMG 17	17	310	0.05		215	0.089	16.5	0.476	0.8	0.014	3.4	0.005	5			
Mill Creek	Mill Creek below reservoir PWMG 20	20	8.9	0.05		18.5	0.565	14	0.321	0.8	0.1	10.3	0.015	5			
North River	North River Above Rte 885 Bridge PWMG 5	5	2419	0.05		300	0.256	90.2	0.824	4.2	0.025	29.7	0.014	5			
North River	North River below bridge on Morton Rd PWMG 7	7	8.5	0.05		235	0.256	108.3	0.655	5.2	0.043	27.5	0.012	5			
Petlicodioc River	Petlicodioc River Above French Brook PWMG 15	15	10.1	0.05		755	0.257	64.1	0.624	2.7	0.036	26.3	0.005	5			
Petlicodioc River	Petlicodioc River Above Rte 905 Bridge PWMG 3	3	9.2	0.107		3000	0.556	110.3	1.12	4.9	0.144	44.3	0.028	5			
Petlicodioc River	Petlicodioc River at TCH Bridge PWMG 4	4	2419	0.05		300	0.551	100.2	1.12	4.5	0.122	41.7	0.051	5			
Petlicodioc River	Petlicodioc River Below Rte 112 Bridge PWMG 16	16	10.4	0.05		192	0.182	37.2	0.538	1.7	0.021	14.9	0.005	5			
Petlicodioc River	Petlicodioc River near mouth of Pollitt R PWMG 10	10	9.7	0.05		255	0.302	101.9	0.75	4	0.023	43.4	0.01	5			
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	10.1	0.05		190	0.086	11.4	0.318	0.7	0.018	2.2	0.005	5			
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	10.3	0.05		93	0.11	6.6	0.24	0.4	0.005	1.6	0.005	5			
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	10.5	0.05		127	0.117	8.1	0.206	0.5	0.005	1.7	0.005	5			
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	10.3	0.05		168	0.127	10	0.26	0.6	0.014	1.8	0.005	5			
Prosser Brook	Prosser Brook near mouth PWMG 18	18	10	0.05		98	0.025	19	0.383	0.8	0.005	2.5	0.005	5			
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	10.8	0.05		0	0.159	9.7	0.4	0.6	0.123	2.2	0.045	5			
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	9.8	0.05		36	0.114	22.8	0.468	1.1	0.005	3.7	0.005	5			
Fox Creek	Fox Creek at route 106 PWMG 31	31	7.4	0.122		226	1.31	54.2	1.42	3.1	0.311	29.1	0.072	5			
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	8.8	0.139		500	0.913	53.1	1.05	3	0.433	33	0.078	5			
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	9.3	0.118		138	0.616	37.3	0.47	2.2	0.072	23.3	0.025	5			
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	9.4	0.05		212	0.453	49.8	0.743	1.9	0.07	17.5	0.022	5			
Jones Lake	Jones Lake PWMG 22	22	220	0.191		155	0.976	60.6	1.25	2.7	0.347	29.6	0.038	5			
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	9.6	0.05		36	0.262	45.4	0.86	2.3	0.157	10.9	0.018	5			
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	10	0.05		50.5	0.357	48.6	0.41	2.7	0.035	6.3	0.016	5			
North River	North River Below Rte 112 Bridge PWMG 8	8	9.1	0.05		200	0.522	37.7	0.413	2	0.05	8.3	0.017	5			
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	9.4	0.245		1720	0.534	156.7	2.25	6.4	0.283	72	0.078	5			
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	8.4	0.236		2516	0.907	141.3	2.13	6	0.351	70.9	0.144	5			
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	9.6	0.134		305	0.387	119.5	1.26	5.3	0.168	28	0.041	5			
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28	8.6	0.154		220	0.497	114.1	1.49	5.1	0.195	33.5	0.056	5			
Petlicodioc River	Petlicodioc River @ Stn 4	4	8.3	0.08		153	0.626	28	0.652	1.7	0.06	9	0.005	5			
Anagance River	Anagance River Above Mouth PWMG 2	2	4.7	0.101		21	1.19	28.6	0.399	2.1	1.46	10.8	0.02	5			
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	11.1	0.131		85	0.172	324.6	2.1	9.7	0.073	462	0.005	5			
Bennett Brook	Bennett Brook PWMG 6	6	11.3	0.13		18	0.025	298.8	1.68	12.6	0.011	101	0.005	5			
North River	North River Above Rte 885 Bridge PWMG 5	5	10.5	0.13		18	0.025	298.8	1.68	12.6	0.011	101	0.005	5			

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	DO (mg/L)	Field-ELC _{col} -Average (MPN/100ml)	F (mg/L)	FC-MF Average (CFU/100ml)	Fe (mg/L)	Hg (ug/L)	HARD (mg/L CaCO ₃)	K (mg/L)	Mg (mg/L)	Mn (mg/L)	Na (mg/L)	NH ₃ T (mg/L)	NI (ug/L)	NO ₂ (mg/L)
North River	North River below bridge on Morton Rd PWMG 7	7	8.2	140	0.148	120	0.099		316.5	1.56	13.2	0.089	144	0.005	5	
North River	North River Below Rte 112 Bridge PWMG 8	8	8.2	108	0.163	85.5	0.199		297.5	1.8	12.4	0.148	101	0.005	5	
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	11	50	0.11	12.5	0.19		180.3	1.36	6.8	0.013	120	0.005	5	
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	14.7	7.5	0.115	12.5	0.128		103.8	1.55	7.1	0.028	125	0.005	5	
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	9.3	7	0.05	11	0.025		9.5	0.336	0.5	0.005	2.2	0.005	5	
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	9	12	0.05	16	0.025		14.1	0.313	0.7	0.015	2.6	0.005	5	
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	9.9	2	0.05	2	0.025		22	0.426	1.1	0.005	3.2	0.005	5	
Prosser Brook	Prosser Brook near mouth PWMG 18	18	6.9	12.5	0.05	6	0.025		29.5	0.512	1.1	0.005	3.4	0.005	5	
Fox Creek	Fox Creek at route 106 PWMG 31	31	7.1	2419	0.127	300	0.81		47.6	1.65	2.4	0.238	21.7	0.051	5	
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	9	2419	0.144	300	0.848		91.9	1.99	3.2	0.095	46	0.015	5	
Little River	Little River near mouth PWMG 17	17	9.2	2419	0.05	208	0.093		30.1	0.758	1.3	0.02	7.1	0.006	5	
Mill Creek	Mill Creek below reservoir PWMG 20	20	7.5	23	0.05	38	1.18		27	0.55	1.4	0.338	18.4	0.005	5	
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	9.4	2419	0.05	224	0.232		141.9	1.2	6.8	0.048	11.3	0.005	5	
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	9	308	0.05	119	0.087		83.5	0.807	3.3	0.021	45.4	0.005	5	
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	9.3	238	0.05	228	0.025		76.7	0.812	3.1	0.017	40.1	0.005	5	
Petitcodiac River	Petitcodiac River near mouth of Pollitt R PWMG 10	10	6.8	435	0.109	265	0.088		177.8	1.49	6.5	0.05	110	0.005	5	
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	9.2	132	0.05	135	0.061		23.9	0.548	1.2	0.005	4.8	0.005	5	
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	9.9	345	0.05	134	0.025		57.2	0.732	2.3	0.005	8.9	0.005	5	
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	9.3	1975	0.142	635	1.32		82.2	1.99	3.9	0.353	58.5	0.084	5	
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	10	776.5	0.128	272.5	0.314		76.7	1	3.7	0.087	32.8	0.013	5	
Jones Lake	Jones Lake PWMG 22	22	9.4	240	0.307	200	0.991		93.8	1.47	4	0.281	41.9	0.019	5	
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	10	368	0.05	181.5	0.287		86.9	0.864	3.1	0.11	15.9	0.013	5	
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	9.5	6745	0.137	1960	0.486		166.4	2.29	6.1	0.054	77.3	0.024	5	
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	8.1	8935	0.05	2770	0.899		143.5	2.45	5.5	0.183	78.4	0.13	5	
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	6.5	0	0.05	0.5	0.593		22.8	0.58	1.1	1.07	3.2	0.117	5	
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	9.9	880	0.124	750	0.48		179.2	1.69	8.7	0.11	36.3	0.015	5	
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	7.7	2815	0.128	1815	0.867		157.8	1.99	6	0.178	51.3	0.063	5	
Petitcodiac River	Petitcodiac River @ Sin 4															
Anagance River	Anagance River Above Mouth PWMG 2 (en trip)	2		80.6666667	0.05	53	0.67066667		30.73333333	0.74533333	1.86666667	0.032	14.3666667	0.005	5	
Bennett Brook	Bennett Brook PWMG 6	6		142	0.123	130	0.235		323.3	1.9	11.2	0.091	383	0.005	5	
Fox Creek	Fox Creek at route 106 PWMG 31	31		560	0.113	500	1.29		51.1	1.27	2.9	0.133	23.7	0.063	5	
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29		40	0.163	70	0.386		67.2	0.635	3.7	0.069	40.2	0.011	5	
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30		461	0.163	288	0.844		79.1	1.15	4.3	0.199	50	0.037	5	
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23) (en trip)	23		950	0.13866667	1093.333333	0.289		111.1333333	1.61	4	0.05033333	51.63333333	0.005	5	
Jones Lake	Jones Lake PWMG 22	22		190	0.334	200	0.625		88.6	1.98	3.8	0.262	42.1	0.005	5	
Little River	Little River near mouth PWMG 17	17		30	0.05	60	0.074		31.1	0.626	1.3	0.005	7.4	0.005	5	
Memramcook	Memramcook River @ Calhoun PWMG 35	35		41	0.05	50	0.72		19.6	0.65	1	0.073	6.6	0.01	5	
Mill Creek	Mill Creek below reservoir PWMG 20	20		17	0.108	15	1.32		25.8	0.714	1.3	0.29	22.6	0.017	5	
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28		22	0.05	9	0.245		65.5	0.823	3	0.092	16.2	0.005	5	
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9		60	0.05	32	0.147		133.9	0.752	6.5	0.032	12.5	0.015	5	
North River	North River Above Rte 885 Bridge PWMG 5	5		10	0.118	30	0.025		208.9	1.08	8.4	0.005	53.4	0.005	5	
North River	North River below bridge on Morton Rd PWMG 7	7		10	0.117	5	0.108		208.5	1.06	8.8	0.036	65.3	0.005	5	
North River	North River Below Rte 112 Bridge PWMG 8	8		921	0.101	300	0.181		149.3	0.777	6.6	0.081	36.1	0.005	5	
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15		30	0.05	30	0.025		92.7	0.778	3.8	0.013	44.2	0.005	5	
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3		90	0.108	50	0.219		174.1	1.09	6.5	0.017	92.1	0.024	5	
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4		420	0.107	570	0.223		175.7	1.2	6.6	0.037	92.2	0.035	5	
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16		30	0.05	30	0.025		66.2	0.762	3.4	0.012	39.8	0.005	5	
Petitcodiac River	Petitcodiac River near mouth of Pollitt R PWMG 10	10		70	0.108	60	0.095		168.6	1.17	8.5	0.016	65.9	0.012	5	
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11		70	0.05	20	0.025		20.8	0.417	1	0.005	4.1	0.005	5	
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14		16	0.05	5	0.025		10	0.219	0.6	0.005	2.2	0.005	5	
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13		25	0.05	31	0.051		15.5	0.337	0.8	0.016	2.8	0.005	5	
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12		10	0.05	6	0.025		18.4	0.387	0.9	0.006	3	0.005	5	
Prosser Brook	Prosser Brook near mouth PWMG 18	18		9	0.05	2	0.025		31.2	0.428	1.1	0.005	3.5	0.005	5	
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25		500	0.254	800	0.674		98	1.82	3.8	0.043	49.6	0.005	5	
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24		640	0.245	1080	0.782		100.9	1.73	4	0.117	45.7	0.061	5	
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19		1	0.05	1	1.32		25.2	0.589	1.2	1.17	3.9	0.159	5	
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32		6	0.05	6	0.025		70	0.668	2.8	0.005	10.8	0.005	5	
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27		2419	0.163	300	0.349		148.9	1.84	5.9	0.112	38.3	0.014	5	
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26		390	0.18	410	0.487		135.2	1.57	5.3	0.139	41.3	0.018	5	
Anagance River	Anagance River Above Mouth PWMG 2	2		50	0.05	32	0.528		20.8	1.05	1.3	0.086	9.1	0.005	5	
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1		39	0.05	33	0.522		21.7	1.09	1.7	0.082	9.4	0.005	5	
Bennett Brook	Bennett Brook PWMG 6	6		750	0.05	150	0.247		231.8	2.05	8.4	0.062	146	0.005	5	
Fox Creek	Fox Creek at route 106 PWMG 31	31		460	0.05	250	1.163		31.4	1.85	2.1	0.117	16.3	0.005	11	
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29		190	0.05	210	0.806		53.2	1.43	2.5	0.086	35.2	0.005	5	
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30		20	0.05	21	0.427		40.5	1.41	2.2	0.056	24.9	0.005	5	
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23		1330	0.05	1580	0.421		74.1	1.76	2.9	0.046	34.9	0.005	5	
Jones Lake	Jones Lake PWMG 22	22		200	0.154	130	0.906		69.9	2.67	2.8	0.12	30.4	0.09	5	
Little River	Little River near mouth PWMG 17 (en trip)	17		69.6666667	0.05	33.33333333	0.07633333		20.96666667	0.76566667	0.93333333	0.011	3.8	0.005	5	
Memramcook	Memramcook River @ Calhoun PWMG 35	35	9.95	328	0.05	300	0.764		14.8	1	0.8	0.113	6.1	0.005	5	
Mill Creek	Mill Creek below reservoir PWMG 20	20		130	0.05	80	0.818		13.4	0.553	0.7	0.107	8.4	0.005	5	
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28		60	0.05	20	0.205		68.7	1.13	3.1	0.061	16.2	0.005	5	
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9		36	0.05	34	0.22		101.6	0.797	4.9	0.038	9.4	0.005	5	
North River	North River Above Rte 885 Bridge PWMG 5	5		219	0.05	80	0.224		131.5	1.96	4.9	0.041	26	0.005	5	
North River	North River below bridge on Morton Rd PWMG 7 (en trip)	7		60	0.05	16.33333333	0.27266667		140.9666667	1.18333333	5.9	0.054	38.5	0.005	5	
North River	North River Below Rte 112 Bridge PWMG 8	8		460	0.05	180	0.382		104	1.33	4.7	0.054	20.5	0.005	5	
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15		248	0.05	68	0.288		57.5	0.941	2.2	0.066	23.8	0.005	5	
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3		727	0.05	280	0.434		104.1	1.83	4.3	0.08	36.7	0.005	5	
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4		1840	0.05	1260	0.437		121.6	2.09	4.8	0.081	43.5	0.03	5	

Appendix 2. Water quality data from the Petitedodiac watershed, 1975-1999

Water body	Station	Station PWMG #	DO (mg/L)	Field-ELC	col-Average (MPN/100ml)	F (mg/L)	C-MF Average (CFU/100ml)	Fe (mg/L)	Hg (µg/L)	HARD (mg/L CaCO ₃)	K (mg/L)	Mg (mg/L)	Mn (mg/L)	Na (mg/L)	NH ₃ T (mg/L)	Ni (µg/L)	NO ₂ (mg/L)
Petitedodiac River	Petitedodiac River Below Rte 112 Bridge PWMG 18	18				122	0.05	136	0.291	52.3	0.887	2.1	0.044	20.3	0.005	5	
Petitedodiac River	Petitedodiac River near mouth of Pollett R PWMG 10	461				461	0.05	140	0.391	131	1.38	4.7	0.085	61.1	0.005	5	
Pollett River	Pollett River 1km Above Mouth PWMG 11	11				579	0.05	300	0.274	14.8	0.727	0.8	0.028	2.3	0.005	5	
Pollett River	Pollett River @ Church's Corner PWMG 14	14				14	0.05	9	0.025	9.2	0.274	0.6	0.005	1.8	0.005	5	
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13				13	0.05	8	0.081	12.6	0.371	0.7	0.005	2.1	0.005	5	
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12				818	0.05	300	0.262	12.4	0.693	0.7	0.042	1.8	0.005	5	
Prosser Brook	Prosser Brook near mouth PWMG 18	18				16	0.05	10	0.025	22.4	0.516	0.7	0.005	2.5	0.005	5	
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25				2419	0.144	1000	0.651	100.3	1.97	3.8	0.056	60	0.011	5	
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24				420	0.05	400	1.023	82.8	1.51	2.4	0.092	37.1	0.038	5	
Turtle Creek	Turtle Creek @ Bypass channel by pump house PWMG 19	19				1	0.05	0	0.365	21.6	0.768	1	0.15	3.8	0.049	5	
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32				238	0.05	100	0.213	18.2	0.688	0.9	0.027	2.6	0.005	5	
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27				291	0.105	90	0.478	116.6	1.97	4.6	0.105	31.5	0.006	5	
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28 (entire)	28				367.6666667	0.06733333	533.3333333	0.65366667	102.8666667	1.81666667	4.1	0.09433333	37.1	0.006	5	
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		11.1			140	0.497	0.43		75.1	1.38	2.87	0.105	31.9	0.015	2.5	0.025
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		11.8			20	0.119	0.025		102	0.571	2.24	0.052	9.03	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		11			100	0.05	0.06		122	0.991	4.22	0.032	17	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		8.9			50	0.106	0.98		120	1	3.75	0.92	37	0.086	2.5	0.025
Jonathan Creek	Jonathan Creek 3 near exit ramp		11.1			340	0.103	0.44		118	1.02	3.82	0.277	39	0.034	2.5	0.025
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		10.7			50	0.05	0.12		106	1.13	3.44	0.053	33.2	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		10.1			140	0.106	0.19		99	1.2	3.29	0.133	33.6	0.014	2.5	0.025
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		11.3			120	0.147	0.31		59.2	1.32	3.07	0.092	48.1	0.029	2.5	0.025
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWGM 23)	23	10.6			60	0.106	0.18		93.4	1.26	3.26	0.088	34.6	0.011	2.5	0.025
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		10			110	0.156	0.96		100	1.55	3.96	0.254	39.2	0.035	2.5	0.025
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		11.2			10	0.42	0.37		85.7	1.29	3.33	0.092	34	0.012	2.5	0.025
Anagance River	Anagance River Above Mouth PWMG 2	2	11			50	0.05	0.69		22.3	0.463	1.34	0.06	7.01	0.011	2.5	0.025
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	3.8			110	0.05	1.72		23.5	0.258	1.72	0.287	8.04	0.02	2.5	0.028
Bennett Brook	Bennett Brook near mouth PWMG 45	45	10.4			50	0.05	0.08		211	1.19	6.85	0.042	289	0.018	2.5	0.025
Little River	Little River below Prosser Brook PWMG 41	41	10.5			110	0.05	0.025		19.9	0.368	0.85	0.0055	2.75	0.005	2.5	0.025
Little River	Little River near mouth PWMG 17	17	9.6			5	0.05	0.05		22.6	0.449	0.96	0.012	4.44	0.005	2.5	0.025
North River	North River Above Rte 885 Bridge PWMG 5	5	11.9			20	0.104	0.025		232	1.08	9.84	0.0086	85.2	0.005	2.5	0.025
North River	North River above Rte 880 crossing PWMG 43	43	10.9			10	0.128	0.09		252	1.02	12.2	0.14	95.7	0.005	2.5	0.025
North River	North River below bridge on Morton Rd PWMG 7	7	10.6			5	0.114	0.11		247	1.1	11	0.102	122	0.005	2.5	0.025
North River	North River below Tingley Hill Bridge PWMG 40	40	11.3			20	0.1	0.025		258	1.14	8.85	0.012	154	0.005	2.5	0.025
Petitedodiac River	Petitedodiac River Above French Brook PWMG 15	15	10.3			5	0.05	0.07		58.8	0.448	2.16	0.011	26.6	0.005	2.5	0.025
Petitedodiac River	Petitedodiac River at TCH Bridge PWMG 4	4	14.5			50	0.05	0.29		129	0.874	5.27	0.011	82.7	0.005	2.5	0.025
Petitedodiac River	Petitedodiac River Below Rte 112 Bridge PWMG 18	18	10.5			30	0.06	0.06		50.5	0.403	1.9	0.01	21.9	0.005	2.5	0.025
Petitedodiac River	Petitedodiac River near mouth of Pollett R PWMG 10	10	11.1			10	0.05	0.16		135	0.685	4.6	0.018	68.2	0.005	2.5	0.025
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	8.7			10	0.05	0.025		18.8	0.389	0.81	0.0079	3.38	0.005	2.5	0.025
Pollett River	Pollett River @ Church's Corner PWMG 14	14				10	0.05	0.025		8.70	0.222	0.54	0.0026	1.93	0.005	2.5	0.025
Fox Creek	Fox Creek at route 106 PWMG 31	31	9.8			130	0.15	0.52		150	3.21	13.5	0.363	115	0.056	2.5	0.025
Halls Creek	Halls Creek near mouth PWMG 44	44	10.4			400	0.05	0.51		83.2	1.37	5.91	0.282	43	0.048	2.5	0.025
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	8.5			1330	0.245	0.44		88.4	1.22	4.68	0.75	36.7	0.043	2.5	0.025
Memramcook	Memramcook River @ Calhoun PWMG 35	35	10.1			20	0.05	0.35		21.4	0.537	1.06	0.06	12.1	0.01	2.5	0.025
Mill Creek	Mill Creek below reservoir PWMG 20	20	7.7			60	0.05	0.93		21.2	0.477	1.02	0.132	15	0.06	2.5	0.025
North River	North River @ Pacific Junction Rd Bridge PWMG 9	9	10.2			60	0.05	0.06		159	0.745	7.54	0.05	12.1	0.015	2.5	0.025
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	9.4			50	0.05	0.025		69.1	0.565	2.67	0.0067	10.4	0.006	2.5	0.025
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park					1650	0.127	0.49		107	2.22	3.96	0.138	70.1	0.042	2.5	0.025
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road					80	0.283	0.05		103	0.685	2.2	0.064	10	0.024	2.5	0.025
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road					500	0.199	0.11		142	1.2	5.09	0.048	18.3	0.017	2.5	0.025
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road					700	0.332	0.77		112	0.991	3.38	0.867	32.6	0.105	2.5	0.07
Jonathan Creek	Jonathan Creek 3 near exit ramp					940	0.309	0.44		116	1.1	3.78	0.313	49.2	0.059	2.5	0.025
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road					860	0.288	0.31		104	1.43	3.45	0.042	48.9	0.022	2.5	0.025
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road					860	0.3	0.36		98.2	1.54	3.33	0.076	50.4	0.013	2.5	0.025
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St					2000	0.349	0.72		97.3	2.23	5.23	0.118	85.8	0.057	2.5	0.025
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWGM 23)	23				2000	0.284	0.48		99.7	1.71	3.71	0.048	58.4	0.016	2.5	0.025
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd					1180	0.344	0.56		100	2.05	3.78	0.103	62.4	0.041	2.5	0.025
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School					880	0.112	0.5		110	2.31	4.08	0.069	68.7	0.029	2.5	0.025
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	2.6			140	0.05	1.51		24.4	0.36	1.78	0.451	9.77	0.037	2.5	0.025
Bennett Brook	Bennett Brook near mouth PWMG 45	45	11.2			100	0.05	0.09		278	1.51	6.42	0.027	368	0.005	2.5	0.025
Fox Creek	Fox Creek at route 106 PWMG 31	31	8.5			450	0.155	0.88		134	2.86	6.42	0.446	57.8	0.016	2.5	0.025
Halls Creek	Halls Creek near mouth PWMG 44	44	7.6			410	0.05	0.68		89.2	1.69	4.8	0.44	37.8	0.04	2.5	0.025
North River	North River @ Pacific Junction Rd Bridge PWMG 9	9	10.3			180	0.05	0.08		150	0.872	7.19	0.039	16	0.005	2.5	0.025
North River	North River Above Rte 885 Bridge PWMG 5	5	9.7			60	0.13	0.06		255	1.38	11	0.028	96.8	0.005	2.5	0.025
North River	North River below bridge on Morton Rd PWMG 7	7	9.7			40	0.12	0.06		277	1.18	11.5	0.036	116	0.005	2.5	0.025
Jones Lake	Jones Lake PWMG 22	22	7.8			30	0.284	0.18		80.1	1.54	3.28	0.152	43.8	0.063	2.5	0.025
Memramcook	Memramcook River @ Calhoun PWMG 35	35	8.9			80	0.05	0.21		26.9	0.731	1.26	0.056	15.6	0.005	2.5	0.025
Petitedodiac River	Petitedodiac River Above French Brook PWMG 15	15	8.3			20	0.05	0.05		104	0.98	3.91	0.019	62.2	0.005	2.5	0.025
Petitedodiac River	Petitedodiac River at TCH Bridge PWMG 4	4	13.7			130	0.05	0.22		164	1.24	6.04	0.086	98	0.005	2.5	0.025
Pollett River	Pollett River @ Church's Corner PWMG 14	14	8.4			5	0.05	0.025		10.1	0.304	0.61	0.0025	2.22	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park					700	0.05	0.75		48.8	1.47	2	0.052	35.4	0.033	2.5	0.025
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road					270	0.05	0.11		83.3	0.431	1.47	0.019	5.79	0.028	2.5	0.025
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road					110	0.05	0.37		61.7	1.42	2.45	0.048	22.3	0.103	2.5	0.12
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road					290	0.05	0.4		46.2	0.852	1.47	0.073	14.9	0.036	2.5	0.025
Jonathan Creek	Jonathan Creek 3 near exit ramp					270	0.05	0.58		48.6	0.972	1.78	0.074	22.5	0.03	2.5	0.025
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road					250	0.05	0.69		44.6	0.894	1.73	0.065	24.3	0.022	2.5	0.025
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road					210	0.05	0.74		45.8	0.99	1.79	0.044	30.2	0.023	2.5	0.025
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St					740	0.05	0.75		34.2	1.31	1.88	0.029	27.3	0.03	2.5	0.025
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWGM 23)	23				560	0.05	0.7		43.4	1.07	1.83	0.037	29.7	0.021	2.5	0.025

Appendix 2. Water quality data from the Pettitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	DO (mg/L)	Field-ELC	col-Average (MPN/100ml)	F (mg/L)	C-MF Average (CFU/100ml)	Fe (mg/L)	Hg (µg/L)	HARD (mg/L CaCO ₃)	K (mg/L)	Mg (mg/L)	Mn (mg/L)	Na (mg/L)	NH ₃ T (mg/L)	Ni (µg/L)	NO ₂ (mg/L)
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd				880	0.05		0.77		45	1.27	1.88	0.049	31.3	0.024	2.5	0.025
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School				700	0.05		0.79		48.3	1.45	1.99	0.043	34.6	0.025	2.5	0.025
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24			2000	0.17		0.76		136	2.81	5.24	0.187	58.2	0.36	2.5	0.025
Fox Creek	Fox Creek at route 108 PWMG 31	31			2000	0.05		1.92		80.2	1.94	3.74	0.34	29.3	0.089	12.5	0.025
Jones Lake	Jones Lake PWMG 22	22			150	0.121		0.34		83.9	1.85	2.51	0.148	40	0.086	2.5	0.12
Little River	Little River below Prosser Brook PWMG 41	41			30	0.05		0.025		32.5	0.457	0.94	0.0025	3.79	0.005	2.5	0.025
Little River	Little River near mouth PWMG 17	17			2000	0.05		0.1		32.1	0.826	1.42	0.022	8.8	0.018	2.5	0.025
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35			240	0.05		0.42		22.55	0.502	1.14	0.0295	9.555	0.013	2.5	0.025
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9			80	0.05		0.1		166	0.952	7.94	0.05	14.6	0.005	2.5	0.025
North River	North River Above Rte 885 Bridge PWMG 5	5			160	0.05		0.05		185	0.877	7.54	0.057	61.6	0.011	2.5	0.025
North River	North River above Rte. 880 crossing PWMG 43	43			30	0.05		0.1		190	1.01	8.34	0.065	79.6	0.005	2.5	0.025
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15			80	0.05		0.19		85.2	0.623	3.38	0.032	48.2	0.012	2.5	0.025
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16			40	0.05		0.15		72.3	0.514	2.93	0.019	38.9	0.005	2.5	0.025
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24			2000	0.172		0.73		135	2.85	5.2	0.202	57.6	0.6	2.5	0.025
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32			10	0.05		0.025		122	0.788	4.87	0.008	19.5	0.005	2.5	0.025
Anagance River	Anagance River Above Mouth PWMG 2	2		9.5	50	0.05		1.02		28.1	0.801	1.82	0.0053	9	0.005	2.5	0.025
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1			30	0.05		2.8		28	0.332	1.9	0.144	8	0.019	2.5	0.025
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29			160	0.188		0.05		83	1.45	4.27	0.0052	38.2	0.052	2.5	0.025
Mill Creek	Mill Creek below reservoir PWMG 20	20			20	0.05		1.03		26.1	0.711	1.29	0.016	20.4	0.077	2.5	0.025
North River	North River below bridge on Morton Rd PWMG 7	7			40	0.05		0.025		221	0.978	8.9	0.0025	86	0.005	2.5	0.025
North River	North River below Tingley Hill Bridge PWMG 40	40			20	0.05		0.025		281	1.22	9.59	0.0025	164	0.005	2.5	0.025
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4			30	0.05		0.18		152	0.965	5.65	0.0025	93.4	0.005	2.5	0.025
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10			5	0.05		0.09		145	0.788	5.34	0.0025	86.6	0.005	2.5	0.025
Pollett River	Pollett River 1km Above Mouth PWMG 11	11			10	0.05		0.025		25.2	0.435	1.21	0.0025	5.89	0.005	2.5	0.025
Pollett River	Pollett River @ Church's Corner PWMG 14	14			5	0.05		0.025		9.82	0.209	0.82	0.0025	2.34	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park				1010	0.142		0.85		94	2.6	3.79	0.191	52	0.013	2.5	0.025
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road				40	0.114		0.05		105	0.879	2.28	0.057	9.24	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road				190	0.05		0.06		119	1.84	4.58	0.023	23	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road				410	0.05		1.1		108	1.44	3.44	0.498	30.8	0.055	2.5	0.025
Jonathan Creek	Jonathan Creek 3 near exit ramp				290	0.05		0.46		105	1.84	3.5	0.184	33.7	0.014	2.5	0.025
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road				270	0.05		0.32		92.6	2.04	3.22	0.033	31.7	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road				450	0.05		0.35		88.2	2.08	3.13	0.045	36	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St				2000	0.111		0.9		82.6	2.83	4.58	0.064	66.1	0.024	2.5	0.025
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23			1440	0.05		0.45		86.8	2.25	3.34	0.037	42	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd				1090	0.05		0.81		90.7	2.64	3.64	0.112	47.2	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School				740	0.133		0.75		94.8	2.71	3.83	0.052	50.1	0.005	2.5	0.025
Anagance River	Anagance River Above Mouth PWMG 2	2		9.3	2000	0.05		1.6		19.3	1.49	1.28	0.125	13.3	0.012	2.5	0.025
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1		6.1	620	0.05		0.57		17.3	0.583	1.33	0.063	10	0.005	2.5	0.025
Bennett Brook	Bennett Brook PWMG 6	6		8.7	2000	0.05		1.32		121	3.45	5.29	0.155	51.8	0.041	2.5	0.025
North River	North River Above Rte 885 Bridge PWMG 5	5		9.3	2000	0.05		1.67		51.3	3.98	3.68	0.168	11.8	0.023	2.5	0.025
North River	North River below bridge on Morton Rd PWMG 7	7		8.6	2000	0.05		0.26		129.2	1.87	5.42	0.043	34.5	0.005	2.5	0.025
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4		9	2000	0.05		1.87		104	2.12	3.98	0.088	50.5	0.038	2.5	0.025
Anagance River	Anagance River Above Mouth PWMG 2	2			40	0.05		0.49		13	0.312	0.88	0.028	4.47	0.005	2.5	0.025
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1			50	0.05		0.6		12.2	0.293	0.88	0.032	4.34	0.005	2.5	0.025
Bennett Brook	Bennett Brook PWMG 6	6			30	0.05		0.14		114	0.858	3.74	0.021	98.2	0.005	2.5	0.025
Fox Creek	Fox Creek at route 108 PWMG 31	31			190	0.05		0.94		33.7	0.743	1.72	0.081	13.4	0.027	2.5	0.025
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29			80	0.104		0.88		38.3	0.867	2.05	0.072	20.7	0.048	2.5	0.025
Jones Lake	Jones Lake PWMG 22	22			270	0.05		1.27		47	1.04	1.78	0.154	16.7	0.098	2.5	0.025
Little River	Little River below Prosser Brook PWMG 41	41			100	0.05		0.06		16.4	0.28	0.74	0.0052	2.49	0.005	2.5	0.025
Little River	Little River near mouth PWMG 17	17			80	0.134		0.11		15.6	0.36	0.78	0.013	3.19	0.005	2.5	0.025
Memramcook	Memramcook River @ Calhoun PWMG 35	35			20	0.05		0.74		13.4	0.322	0.68	0.124	4.27	0.01	2.5	0.025
North River	North River Above Rte 885 Bridge PWMG 5	5			100	0.05		0.3		99.9	0.799	3.7	0.033	22.8	0.005	2.5	0.025
North River	North River below bridge on Morton Rd PWMG 7	7			190	0.05		0.39		84.2	0.657	3.64	0.036	27.1	0.016	2.5	0.025
North River	North River below Tingley Hill Bridge PWMG 40	40			190	0.05		0.23		112	0.942	3.99	0.028	43	0.005	2.5	0.025
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15			100	0.05		0.27		39.8	0.553	1.83	0.025	13.8	0.005	2.5	0.025
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4			150	0.05		0.37		61.3	0.573	2.38	0.032	22.4	0.018	2.5	0.025
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16			140	0.05		0.23		33.4	0.512	1.43	0.02	11.4	0.005	2.5	0.025
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10			100	0.05		0.42		54.9	0.694	2.21	0.04	20.3	0.005	2.5	0.025
Pollett River	Pollett River 1km Above Mouth PWMG 11	11			10	0.05		0.06		13.4	0.253	0.7	0.0058	2.86	0.005	2.5	0.025
Pollett River	Pollett River @ Church's Corner PWMG 14	14			10	0.05		0.05		8.18	0.134	0.49	0.0025	1.86	0.005	2.5	0.025
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24			1300	0.05		0.49		148	1.62	5.59	0.132	56.8	0.08	2.5	0.025
Mill Creek	Mill Creek below reservoir PWMG 20	20			20	0.05		0.81		11.7	0.28	0.64	0.112	6.08	0.011	2.5	0.025
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9			40	0.05		0.19		76.6	0.585	3.77	0.018	7.65	0.01	2.5	0.025
North River	North River above Rte. 880 crossing PWMG 43	43			320	0.05		0.34		72	0.536	3.28	0.022	20.1	0.015	2.5	0.025
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12			20	0.05		0.05		13.4	0.237	0.67	0.0025	2.32	0.005	2.5	0.025
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28 (en c	28			120	0.1055		0.275		114	1.21	4.465	0.098	28.35	0.013	2.5	0.025
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park				100	0.05		0.52		42.1	0.86	1.68	0.054	18.4	0.015	2.5	0.025
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road				20	0.05		0.06		49.1	0.397	1.18	0.0095	3.96	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road				20	0.05		0.22		52.4	0.846	2.16	0.013	15.7	0.01	2.5	0.025
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road				120	0.05		0.36		47.1	0.574	1.59	0.09	12.1	0.018	2.5	0.025
Jonathan Creek	Jonathan Creek 3 near exit ramp				40	0.05		0.31		46.8	0.553	1.59	0.086	12.9	0.017	2.5	0.025
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road				310	0.05		0.35		39.3	0.519	1.41	0.033	11.7	0.012	2.5	0.025
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road				180	0.05		0.39		38.1	0.532	1.38	0.032	12.4	0.011	2.5	0.025
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St				20	0.05		0.46		28.6	0.595	1.95	0.032	14.1	0.013	2.5	0.025
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23			210	0.05		0.41		35.9	0.679	1.43	0.034	13.1	0.011	2.5	0.025
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd				140	0.05		0.53		39.5	0.837	1.58	0.07	15.4	0.018	2.5	0.025
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School				150	0.05		0.51		41.3	0.852	1.84	0.062	15.9	0.014	2.5	0.025
Anagance River	Anagance River Above Mouth PWMG 2	2				0.05		0.35		13	0.443	0.92	0.025	5.18	0.005	2.5	0.025

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	DO (mg/L)	Field-ELC	col-Average (MPN/100ml)	F (mg/L)	EC-MF Average (CFU/100ml)	Fe (mg/L)	Hg (µg/L)	HARD (mg/L CaCO ₃)	K (mg/L)	Mg (mg/L)	Mn (mg/L)	Na (mg/L)	NH ₃ T (mg/L)	Ni (µg/L)	NO ₂ (mg/L)
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1				0.05		0.38	12.2	0.432	0.05	0.017	4.74	0.005	2.5		0.025
Bennett Brook	Bennett Brook PWMG 6	6				0.05		0.14	115	0.912	4.13	0.024	105	0.01	2.5		0.025
Mill Creek	Mill Creek below reservoir PWMG 20	20				0.05		0.71	8.93	0.33	0.58	0.118	3.97	0.005	2.5		0.025
North River	North River Above Rte 885 Bridge PWMG 5	5				0.05		0.27	75.9	0.724	3.22	0.024	20.2	0.005	2.5		0.025
North River	North River below bridge on Morton Rd PWMG 7	7				0.05		0.33	74.6	0.652	3.37	0.034	25.4	0.012	2.5		0.025
North River	North River below Tingley Hill Bridge PWMG 40	40				0.05		0.21	99.3	0.808	3.81	0.023	37.3	0.005	2.5		0.025
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4				0.05		0.28	63.4	0.729	2.57	0.031	23.4	0.011	2.5		0.025
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14				0.05		0.025	8.23	0.17	0.5	0.0025	1.95	0.005	2.5		0.025
Fox Creek	Fox Creek at route 106 PWMG 31	31				0.05		0.73	31.6	0.788	1.86	0.105	13.7	0.026	2.5		0.025
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29				0.05		0.53	38.6	0.895	2.15	0.079	18.6	0.019	2.5		0.025
Jones Lake	Jones Lake PWMG 22	22				0.05		0.79	46.7	1.1	1.87	0.11	17.3	0.037	2.5		0.025
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35				0.05		0.45	12.4	0.3525	0.685	0.048	4.615	0.0185	2.5		0.025
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9				0.05		0.13	85.9	0.875	4.38	0.02	8.09	0.012	2.5		0.025
North River	North River above Rte 880 crossing PWMG 43	43				0.05		0.27	91.1	0.854	4.23	0.04	28.5	0.016	2.5		0.025
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15				0.05		0.18	46.7	0.559	1.91	0.02	16.6	0.011	2.5		0.025
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16				0.05		0.16	39.4	0.599	1.65	0.021	13.6	0.018	2.5		0.025
Petitcodiac River	Petitcodiac River near mouth of Pollitt R PWMG 10	10				0.05		0.28	69.7	0.804	2.71	0.035	26.1	0.013	2.5		0.025
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11				0.05		0.05	13.2	0.31	0.7	0.0025	2.51	0.005	2.5		0.025
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12				0.05		0.025	12.3	0.279	0.85	0.0025	2.14	0.006	2.5		0.025
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24				0.113		0.66	136	1.55	5.22	0.227	47.5	0.075	2.5		0.025
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32				0.05		0.06	26.8	0.824	1.26	0.018	4.27	0.016	2.5		0.025
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28				0.05		0.33	112	1.26	4.56	0.153	28.3	0.025	2.5		0.025
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29				0.05		0.54	41	0.978	2.28	0.083	20.5	0.012	2.5		0.025
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park	1010				0.05		0.425	54.6	0.788	2	0.063	22.2	0.026	2.5		0.025
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road	240				0.05		0.066	57.1	0.297	1.28	0.013	4.38	0.02	2.5		0.025
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road	980				0.05		0.312	68.9	0.886	2.71	0.044	15.6	0.136	2.5		0.06
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road	500				0.05		0.45	44.9	0.48	1.48	0.09	9.96	0.053	2.5		0.025
Jonathan Creek	Jonathan Creek 3 near exit ramp	700				0.05		0.429	47.4	0.484	1.58	0.079	12.5	0.042	2.5		0.025
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road	570				0.05		0.39	44.3	0.448	1.51	0.029	12.7	0.033	2.5		0.025
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road	580				0.05		0.385	47.8	0.585	1.62	0.035	14.7	0.02	2.5		0.025
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road	560				0.05		0.376	46.4	0.53	1.59	0.031	14.4	0.023	2.5		0.025
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St	1270				0.05		0.386	57.2	0.941	2.93	0.034	44.3	0.039	2.5		0.025
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23				0.05		0.368	44.6	0.518	1.82	0.031	18.3	0.018	2.5		0.025
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd	780				0.05		0.404	48.8	0.608	1.79	0.047	18.3	0.019	2.5		0.025
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School	600				0.05		0.411	55.3	0.79	2.02	0.043	22.2	0.02	2.5		0.025
Anagance River	Anagance River Above Mouth PWMG 2	2		9.8		0.05		0.621	26.6	0.558	1.72	0.03	10.2	0.006	2.5		0.025
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1		18.9		0.05		0.9	27.7	0.616	2.11	0.195	11.6	0.021	2.5		0.025
Bennett Brook	Bennett Brook PWMG 6	6		10.8		0.108		0.169	273	1.72	8.48	0.044	32.4	0.015	2.5		0.025
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park	360				0.138		0.832	94.7	1.54	3.55	0.227	40.7	0.028	2.5		0.025
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road	50				0.118		0.036	93.2	0.57	2.01	0.024	7.44	0.005	2.5		0.025
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road	70				0.05		0.065	103	1.4	3.7	0.033	19.8	0.014	2.5		0.025
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road	190				0.05		0.682	87.3	0.937	2.67	0.248	21.6	0.04	2.5		0.025
Jonathan Creek	Jonathan Creek 3 near exit ramp	100				0.05		0.437	88	0.943	2.77	0.148	25.3	0.02	2.5		0.025
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road	20				0.05		0.239	62.6	0.982	2.68	0.019	24	0.005	2.5		0.025
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road	40				0.104		0.288	61.8	1.06	2.69	0.06	26.4	0.005	2.5		0.025
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St	2310				0.148		0.523	76.4	1.67	3.98	0.063	58.8	0.026	2.5		0.025
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23				0.111		0.267	61.8	1.05	2.85	0.07	31.3	0.012	2.5		0.025
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd	280				0.114		0.5	68.3	1.22	3.27	0.1	34.2	0.022	2.5		0.025
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School	240				0.122		0.434	66.6	1.56	3.64	0.054	39.5	0.011	2.5		0.025
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School	180				0.12		0.436	96.7	1.58	3.64	0.057	39.6	0.01	2.5		0.025
Little River	Little River below Prosser Brook PWMG 41	41		9.8				0.042	26.6	0.397	1.15	0.0063	3.84	0.005	2.5		0.025
Little River	Little River near mouth PWMG 17	17		9.2				0.056	26.8	0.549	1.26	0.013	6.22	0.005	2.5		0.025
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9		9.3				0.233	122	0.842	5.95	0.023	12	0.005	2.5		0.025
North River	North River Above Rte 885 Bridge PWMG 5	5		10.3				0.15	107	0.845	4.56	0.023	28.1	0.012	2.5		0.025
North River	North River above Rte 880 crossing PWMG 43	43		10.4				0.233	107	0.814	4.89	0.006	32.8	0.005	2.5		0.025
North River	North River below bridge on Morton Rd PWMG 7	7		10.8				0.222	103	0.679	4.53	0.0069	34.7	0.005	2.5		0.025
North River	North River below Tingley Hill Bridge PWMG 40	40		14				0.109	161.8	1.06	5.81	0.014	76.4	0.005	2.5		0.025
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15		10.7				0.12	78.3	0.855	3.18	0.013	30.6	0.005	2.5		0.025
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4		14.6				0.24	117	0.954	4.51	0.021	53.1	0.029	2.5		0.025
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16		10.2				0.099	69	0.775	2.85	0.012	26.1	0.005	2.5		0.025
Petitcodiac River	Petitcodiac River near mouth of Pollitt R PWMG 10	10		11.7				0.181	107	1.03	4.27	0.015	44.9	0.005	2.5		0.025
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11		9.7				0.04	22.4	0.486	1.06	0.0025	4.56	0.005	2.5		0.025
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14		9.2				0.024	10.8	0.183	0.67	0.0025	2.38	0.005	2.5		0.025
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12		10.1				0.02	20	0.386	0.996	0.0025	3.22	0.005	2.5		0.025
Fox Creek	Fox Creek at route 106 PWMG 31	31		7.3				1.12	84.3	1.84	3.98	0.139	33.9	0.036	2.5		0.025
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29		8.1				0.609	67.3	0.903	3.56	0.218	62.9	0.029	2.5		0.025
Jones Lake	Jones Lake PWMG 22	22		8				0.289	74.4	1.27	3.05	0.079	41.3	0.005	2.5		0.025
Memramcook	Memramcook River @ Calhoun PWMG 35	35		9.5				0.161	27.8	0.587	1.32	0.01	16.6	0.005	2.5		0.025
Mill Creek	Mill Creek below reservoir PWMG 20	20		8				2.09	32.9	0.624	1.7	0.236	24.6	0.018	2.5		0.025
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24		8.7				1.37	72	1.37	2.96	0.066	31.8	0.072	2.5		0.025
Weldon Creek	Weldon Creek D/S from Salem PWMG 32 (en dupl)	32		10.7				0.025	83.55	0.6905	3.345	0.0025	12.9	0.005	2.5		0.025
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28		8.2				0.14	129	1.55	5.22	0.137	43	0.057	2.5		0.06
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park	90				0.132		0.735	118	2.24	4.38	0.325	54.7	0.024	2.5		0.025
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road	10				0.107		0.031	95.9	0.578	2.05	0.04	8.18	0.005	2.5		0.025
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road	5				0.109		0.03	96.9	0.561	2.09	0.039	8.27	0.005	2.5		0.025
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road	20				0.05		0.164	139	1.04	4.87	0.077	19.9	0.005	2.5		0.025
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road	110				0.05		0.762	108	1	3.33	0.49	30	0.028	2.5		0.025
Jonathan Creek	Jonathan Creek 3 near exit ramp	50				0.05		0.402	128	1	4.1	0.399	41.7	0.015	2.5		0.025

Appendix 2. Water quality data from the Pellicodiac watershed, 1975-1999

Water body	Station	Station PWMG #	DO (mg/L)	Field-ELC	coli-Average (MPN/100ml)	F (mg/L)	C-MF Average (CFU/100ml)	Fe (mg/L)	Hg (µg/L)	HARD (mg/L)	CaCO3	K (mg/L)	Mg (mg/L)	Mn (mg/L)	Na (mg/L)	NH3T (mg/L)	Ni (µg/L)	NO2 (mg/L)
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road				10	0.06		0.116			120	1.02	3.87	0.028	41.5	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road				10	0.05		0.199			95.8	1.09	3.17	0.078	37.9	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St				3650	0.112		0.46			105.9	1.84	5.34	0.123	88.8	0.014	2.5	0.025
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWGM 23)	23			40	0.05		0.186			114.7	1.2	3.97	0.082	48.2	0.005	2.5	0.025
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd				280	0.107		0.822			124	2.54	4.58	0.184	52.9	0.013	2.5	0.025
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School				70	0.107		0.404			118	2.05	4.42	0.083	51	0.005	2.5	0.025
Anagance River	Anagance River Above Mouth PWMG 2	2			100	0.05		0.842			28.1	0.659	1.72	0.066	21.5	0.01	2.5	0.025
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1			50	0.05		0.735			25.7	0.732	1.91	0.108	10.5	0.014	2.5	0.025
Bennett Brook	Bennett Brook PWMG 9	6			180	0.05		0.287			25.9	1.85	10.2	0.088	385	0.011	2.5	0.025
Fox Creek	Fox Creek at route 106 PWMG 31	31			6490	0.151		2.1			109	2.2	5.34	0.442	42.5	0.026	2.5	0.025
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29			480	0.104		0.73			72.2	0.888	3.81	0.191	41.8	0.036	2.5	0.025
Jones Lake	Jones Lake PWMG 22	22			450	0.137		0.843			87.2	1.94	3.4	0.086	48.6	0.031	2.5	0.025
Little River	Little River below Prosser Brook PWMG 41	41			290	0.05		0.038			28.9	0.455	1.24	0.0668	4.08	0.005	2.5	0.025
Little River	Little River near mouth PWMG 17	17			20	0.09		0.594			68.7	1.77	3.83	0.194	121	0.019	2.5	0.025
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35			40	0.05		0.2815			24.45	0.815	1.09	0.015	8.565	0.017	2.5	0.025
Mill Creek	Mill Creek below reservoir PWMG 20	20			20	0.09		0.964			35.3	0.833	1.57	0.348	28.2	0.031	2.5	0.025
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9			70	0.05		0.187			155	0.856	7.34	0.03	13.9	0.005	2.5	0.025
North River	North River Above Rte 885 Bridge PWMG 5	5			50	0.05		0.099			162	0.97	6.64	0.025	43.8	0.01	2.5	0.025
North River	North River above Rte 880 crossing PWMG 43	43			20	0.05		0.128			189	0.789	7.51	0.012	57.8	0.011	2.5	0.025
North River	North River below bridge on Morton Rd PWMG 7	7			280	0.05		0.158			160	0.927	6.48	0.018	61.4	0.013	2.5	0.025
North River	North River below Tingley Hill Bridge PWMG 40	40			90	0.05		0.088			218	1.21	7.6	0.022	112	0.012	2.5	0.025
Pellicodiac River	Pellicodiac River Above French Brook PWMG 15	15			180	0.05		0.111			91.1	0.839	3.47	0.02	39.5	0.01	2.5	0.025
Pellicodiac River	Pellicodiac River at TCH Bridge PWMG 4	4			220	0.05		0.211			160	1.01	5.74	0.041	82.8	0.062	2.5	0.025
Pellicodiac River	Pellicodiac River Below Rte 112 Bridge PWMG 18 (en dupl)	18			130	0.05		0.1005			78.6	0.8005	3.075	0.038	34.4	0.0145	2.5	0.025
Pellicodiac River	Pellicodiac River near mouth of Pollitt R PWMG 10	10			40	0.05		0.153			138	1.07	5	0.045	64.2	0.005	2.5	0.025
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11			120	0.05		0.041			23.7	0.418	1.13	0.0081	4.75	0.005	2.5	0.025
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14			5	0.05		0.022			11.4	0.242	0.69	0.0025	2.34	0.005	2.5	0.025
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12			30	0.05		0.024			20.4	0.373	1.02	0.0025	3.32	0.005	2.5	0.025
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24			24190	0.05		1.74			50.5	1.84	2.28	0.054	18.3	0.188	2.5	0.025
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32			300	0.05		0.015			100	0.834	3.88	0.0025	14.4	0.005	2.5	0.025
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28			24190	0.101		2.32			107	1.34	4.58	0.078	28.2	0.025	2.5	0.025
Anagance River	Anagance River Above Mouth PWMG 2	2			100	0.05		0.825			20.7	0.794	1.39	0.04	9.48	0.005	2.5	0.025
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1 (en dupl)	1			20	0.05		0.5905			19.05	1.035	1.48	0.0295	6.615	0.012	2.5	0.025
Bennett Brook	Bennett Brook PWMG 6	6			1080	0.05		0.39			161	1.7	6.41	0.043	100	0.018	2.5	0.025
Fox Creek	Fox Creek at route 106 PWMG 31	31			980	0.05		1.91			24.4	2.03	1.8	0.189	12.4	0.029	2.5	0.025
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29			840	0.05		2.16			32	1.82	2.07	0.149	18.1	0.018	2.5	0.025
Jones Lake	Jones Lake PWMG 22	22			420	0.05		1.48			61	1.86	2.56	0.145	24.9	0.077	2.5	0.025
Little River	Little River below Prosser Brook PWMG 41	41			240	0.05		0.274			21.2	0.871	0.986	0.011	2.95	0.005	2.5	0.025
Little River	Little River near mouth PWMG 17	17			2100	0.05		0.478			25	1.45	1.25	0.017	4.27	0.027	2.5	0.025
Memramcook	Memramcook River @ Calhoun PWMG 35	35			890	0.05		0.756			18.2	1.05	1.12	0.119	7.56	0.038	2.5	0.025
Mill Creek	Mill Creek below reservoir PWMG 20	20			20	0.05		1.55			16.6	0.861	1.12	0.15	6.02	0.021	2.5	0.025
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9			300	0.05		0.81			45.2	1.45	2.67	0.04	6.88	0.017	2.5	0.025
North River	North River Above Rte 885 Bridge PWMG 5	5			2380	0.05		0.38			101	1.84	4.04	0.029	20.5	0.031	2.5	0.025
North River	North River above Rte 880 crossing PWMG 43	43			550	0.05		0.444			97.8	1.31	4.8	0.042	27.3	0.02	2.5	0.025
North River	North River below bridge on Morton Rd PWMG 7	7			280	0.05		0.284			118	0.944	4.99	0.029	36	0.014	2.5	0.025
North River	North River below Tingley Hill Bridge PWMG 40	40			2250	0.05		0.372			137	1.89	5.31	0.035	44.5	0.02	2.5	0.025
Pellicodiac River	Pellicodiac River Above French Brook PWMG 15	15			490	0.05		0.358			55.9	0.962	2.36	0.024	20.2	0.012	2.5	0.025
Pellicodiac River	Pellicodiac River at TCH Bridge PWMG 4 (en dupl)	4			790	0.078		0.4935			113	1.495	4.51	0.047	43.55	0.028	2.5	0.025
Pellicodiac River	Pellicodiac River Below Rte 112 Bridge PWMG 18	18			270	0.05		0.369			40.3	0.808	1.77	0.021	13.4	0.018	2.5	0.025
Pellicodiac River	Pellicodiac River near mouth of Pollitt R PWMG 10	10			180	0.05		0.52			88.8	1.32	3.61	0.048	38.1	0.019	2.5	0.025
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11			200	0.05		0.564			18	0.709	1.05	0.015	2.88	0.005	2.5	0.025
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14			80	0.05		0.072			10	0.216	0.687	0.0025	2.14	0.005	2.5	0.025
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12			400	0.05		0.133			18.7	0.858	1	0.0091	2.61	0.005	2.5	0.025
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24			7270	0.05		0.664			44.8	2.1	2.85	0.092	20.3	0.078	2.5	0.025
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32			400	0.05		0.542			24.9	0.782	1.29	0.018	3.48	0.005	2.5	0.025
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28			5790	0.05		0.57			51.4	2.78	2.89	0.139	20.8	0.038	2.5	0.025

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	NO3 (mg/L)	NOX (mg/L)	Pb (µg/L)	PH (pH)	Client-Id	Lamot-Id	PH Lab (pH)	Sb (µg/L)	SO4 (mg/L)	SS (mg/L)	C-MPN average (MPN/100ml)	TDS (mg/L)	TEMP (Celsius)	Client-Id	TEMP (Celsius)	Field-ELC	TKN (mg/L as N)
Pollitt River	Pollitt River @ Sin 1			0.09400						5.23									0.43
Pollitt River	Pollitt River @ Sin 2			0.10400						5.63									0.46
Coverdale River	Coverdale River @ Sin 1			0.04000						8.83									0.43
Coverdale River	Coverdale River @ Sin 2			0.03500						6.94									0.28
Coverdale River	Coverdale River @ Sin 3			0.03100						7.16									0.26
Coverdale River	Coverdale River @ Sin 4			0.03500						7.02									0.31
Coverdale River	Coverdale River @ Sin 5			0.04000						8.85									0.29
Turtle Creek	Turtle Creek @ Sin 1			0.01100						6.65									0.5
Turtle Creek	Turtle Creek @ Sin 2			0.00500						6.82									0.16
Turtle Creek	Turtle Creek @ Sin 3			0.01100						7									0.16
Petitcodiac River	Petitcodiac River @ Sin 2			0.03000						7.2									0.23
Petitcodiac River	Petitcodiac River @ Sin 4			0.01000						7.4									0.32
Petitcodiac River	Petitcodiac River @ Sin 5			0.02500						7.2									0.25
Petitcodiac River	Petitcodiac River @ Sin 7			0.03000						7.2									0.37
Turtle Creek	Turtle Creek @ Sin 1			0.01500						7.1									0.23
Turtle Creek	Turtle Creek @ Sin 2			0.00500						7.2									0.05
Turtle Creek	Turtle Creek @ Sin 3			0.04100						7.1									0.05
Halls Brook	Halls Brook @ Sin 1			1.60000						6.9									1.03
Halls Brook	Halls Brook @ Sin 2			1.45000						6.9									0.62
Halls Brook	Halls Brook @ Sin 3			0.27300						7.1									0.27
Halls Brook	Halls Brook @ Sin 4			0.25300						7.1									0.37
Halls Brook	Halls Brook @ Sin 5			0.19200						7.1									0.27
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake			0.14200						7									0.34
Jonathan Creek	Jonathan Creek Past Berry Mills			0.43500						7									0.46
Petitcodiac River	Petitcodiac River @ Sin 1			0.05600						6.7									4.76
Petitcodiac River	Petitcodiac River @ Sin 1a			0.36500						7.2									1.11
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake			0.84000						7.9									0.05
Jonathan Creek	Jonathan Creek Past Berry Mills			2.05000						7.4									0.05
Halls Brook	Halls Brook @ Sin 2			6.35000						6.9									1.16
Halls Brook	Halls Brook @ Sin 3			0.26600						7.5									0.05
Halls Brook	Halls Brook @ Sin 4			0.48900						7.6									0.05
Halls Brook	Halls Brook @ Sin 5			0.41300						7.5									0.05
Halls Brook	Halls Brook @ Sin 1			0.06900						6.1									2.8
Coverdale River	Coverdale River @ Sin 1			0.00850						6.6								9.5	0.05
Halls Brook	Halls Brook @ Sin 2			3.14000						6.8								7	1.25
Halls Brook	Halls Brook @ Sin 4			0.16100						7.2								8.5	0.05
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake			0.10000						6.9								12	0.05
Jonathan Creek	Jonathan Creek Past Berry Mills			0.16700						6.9								11	0.05
Petitcodiac River	Petitcodiac River @ Sin 7			0.00500						6.8								10.5	0.05
Pollitt River	Pollitt River @ Sin 1			0.06900						6.7								9	0.05
Halls Brook	Halls Brook @ Sin 2			1.63000						6.7								15.5	1.2
Halls Brook	Halls Brook @ Sin 4			0.36200						7.2								19	0.367
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake			0.48200						6.8								18	0.57
Jonathan Creek	Jonathan Creek Past Berry Mills			0.65600														18.5	0.448
Coverdale River	Coverdale River @ Sin 1			0.00500						7.1								19	0.1
Petitcodiac River	Petitcodiac River @ Sin 1			0.00500														19	1.1
Petitcodiac River	Petitcodiac River @ Sin 7			0.00500						7								16	0.6
Pollitt River	Pollitt River @ Sin 1			0.05600						7								17	0.19
Jonathan Creek	Jonathan Creek Past Berry Mills			0.16600						7								16.5	0.6
Coverdale River	Coverdale River @ Sin 1			0.03500						6								25	0.6
Halls Brook	Halls Brook @ Sin 2			5.14000						6.9								16	0.4
Halls Brook	Halls Brook @ Sin 4			0.51400						7.35								15	0.3
Petitcodiac River	Petitcodiac River @ Sin 1			0.02200						7.15								16	1.8
Petitcodiac River	Petitcodiac River @ Sin 7			0.03500						7.2								22.5	0.3
Pollitt River	Pollitt River @ Sin 1			0.03600						7.4								25	0.4
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake			0.00000														1	
Jonathan Creek	Jonathan Creek Above Stormsewer A																	1	
Jonathan Creek	Jonathan Creek Above Stormsewer B																	1.5	
Jonathan Creek	Jonathan Creek Below Park Culverts																	1	
Jonathan Creek	Jonathan Creek Below Park Culverts																	1.5	
Jonathan Creek	Jonathan Creek Below Stormsewer																	0.5	
Jonathan Creek	Jonathan Creek Past Berry Mills																	2	
Jonathan Creek	Jonathan Creek Past Berry Mills																	2	
Rabbit Brook	Rabbit Brook @ Sin 1																	2.5	
Rabbit Brook	Rabbit Brook @ Sin 2																	1	
Rabbit Brook	Rabbit Brook @ Sin 3																	1.5	
Rabbit Brook	Rabbit Brook @ Sin 4																	1	
Coverdale River	Coverdale River @ Sin 1			0.10000						7								3	0.5
Halls Brook	Halls Brook @ Sin 4			0.26000						6.6								1	0.01
Petitcodiac River	Petitcodiac River @ Sin 7			0.10000						6.6								0.5	1
Petitcodiac River	Petitcodiac River @ Sin 7			0.10000						6.6								0.5	0.9
Turtle Creek	Turtle Creek @ Sin 2			0.18000						6.9								3	0.6
Halls Brook	Halls Brook @ Sin 2			0.64000						6.6								4	1
Halls Brook	Halls Brook @ Sin 4			0.32000						6.6								1	0.6
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake			0.19000						6.6								2	0.6
Jonathan Creek	Jonathan Creek @ Junct Of Rte 126 & Tch			0.24000						6.7								4	1
Jonathan Creek	Jonathan Creek Past Berry Mills			0.22000						6.6								5	0.9
Petitcodiac River	Petitcodiac River @ Sin 1			0.00500						7								6	19

Appendix 2. Water quality data from the Petittcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	NO3 (mg/L)	NOX (mg/L)	Pb (µg/L)	PH (pH)	Client-fld Lamoth	PH Lab (pH)	Sb (µg/L)	SO4 (mg/L)	SS (mg/L)	TC-MPN average (MPN/100ml)	TDS (mg/L)	TEMP (Celsius)	Client-fld TEMP (Celsius)	Field-ELT (mg/L as N)	TKN (mg/L as N)
Halls Brook	Halls Brook @ Sin 4			0.32000				6.9								9	0.8
Coverdale River	Coverdale River @ Sin 1			0.07000				7								8	0.1
Halls Brook	Halls Brook @ Sin 2			0.22000				6.7								10	0.6
Pettitcodiac River	Pettitcodiac River @ Sin 7			0.04000				6.7								9	0.1
Pollett River	Pollett River @ Sin 1			0.18000				6.8								8	0.1
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake			0.13000				6.7								8	0.7
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch			0.16000				7								8	0.4
Jonathan Creek	Jonathan Creek Past Berry Mills			0.16000				6.9								8.5	0.6
Coverdale River	Coverdale River @ Sin 1			0.06000				7.5								16	0.4
Halls Brook	Halls Brook @ Sin 2			0.30000				7								14	6
Halls Brook	Halls Brook @ Sin 4			0.76000				6.2								14	0.3
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake			0.18000				8								16	0.4
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch			0.48000				7								17	0.7
Jonathan Creek	Jonathan Creek Past Berry Mills			0.06000				6.5								18	0.7
Pettitcodiac River	Pettitcodiac River @ Sin 7			0.00500				8								17	0.2
Pollett River	Pollett River @ Sin 1			0.08000				7.5								16	0.1
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake			0.20000				7.4								18	0.1
Coverdale River	Coverdale River @ Sin 1			0.00500				6.3								19.9	0.1
Halls Brook	Halls Brook @ Sin 2			0.12000				5.1								18.4	3.9
Halls Brook	Halls Brook @ Sin 4			0.80000				7								17.7	0.1
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch			0.29000				4.4								11.8	0.1
Jonathan Creek	Jonathan Creek Past Berry Mills			0.31000				7.3								18.5	0.1
Pettitcodiac River	Pettitcodiac River @ Sin 7			0.00500				6.9								16.1	0.1
Pollett River	Pollett River @ Sin 1			0.11000				8.1								19.2	0.1
Coverdale River	Coverdale River @ Sin 1			0.00500				7.9								24.5	0.2
Halls Brook	Halls Brook @ Sin 2			0.07000	50			6.6								19.6	4
Halls Brook	Halls Brook @ Sin 4			1.00000	50			7.7								17.9	0.4
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake			0.15000	50			7.8								20.9	0.4
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch			0.18000	50			7.2								22.6	0.4
Jonathan Creek	Jonathan Creek Past Berry Mills			0.21000	50			8								24.1	1.8
Pettitcodiac River	Pettitcodiac River @ Sin 1a			0.00500	50			8.4								21.9	0.5
Pettitcodiac River	Pettitcodiac River @ Sin 7			0.00500	50			7.5								22.6	0.3
Pollett River	Pollett River @ Sin 1			0.02000	50			7.8								22.4	0.2
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5			7.18	0.5	3.39	2		928			10.8	0.24
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	0.025	0.025	0.5			6.84	0.5	2.69	2		2202.5			12	0.32
Bennett Brook	Bennett Brook PWMG 6	6	0.01	0.06	0.5			7.9	0.5	86	1		1700			9.8	0.1
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5			7.56	0.5	3.57	1		1688			11.9	0.1
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5			7.87	0.5	51.6	1		2419			12.1	0.43
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5			7.85	0.5	56.2	1		1050			12.6	0.46
North River	North River Below Rte 112 Bridge PWMG 8	8	0.01	0.08	0.5			7.86	0.5	52.3	1		1120			11.3	0.39
Pettitcodiac River	Pettitcodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5			7.9	0.5	23.6	1		1357			12.8	0.1
Pettitcodiac River	Pettitcodiac River Above Rte 905 Bridge PWMG 3	3	0.025	0.025	0.5			7.64	0.5	41.3	2		2419			10.9	0.28
Pettitcodiac River	Pettitcodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5			7.78	0.5	41.1	2		1700			11.5	0.34
Pettitcodiac River	Pettitcodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5			7.53	0.5	15.7	1		2419			12.3	0.1
Pettitcodiac River	Pettitcodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5			7.79	0.5	35.4	1		1859.5			12.9	0.33
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.01	0.06	0.5			7.37	0.5	3.63	0		886.5			10.8	0.1
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.025	0.025	0.5			7.6	0.5	3.04	0		355			8.8	0.1
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.12	0.17	0.5			7.3	0.5	3.82	2		2419			9.8	0.58
Humphreys Brook	Humphreys Brook @ Sin 1	1	0.04	0.09	0.5			7.82	5	17.5	454		2419			11.9	1.6
Jonathan Creek	Jonathan Creek Below Wheeler Blvd	1	0.03	0.08	0.5			7.71	0.5	7.16	3		2419			10	0.32
Jones Lake	Jones Lake PWMG 22	22	0.025	0.06	0.5			7.9	5	36.9	427		2419			13	2.41
Turtle Creek	Turtle Creek @ Bypass Channel		0.025	0.025	0.5			7.28	0.5	3.12	1		66			11.6	0.1
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5			7.64	0.5	18.2	0		542			8.1	0.1
West Branch Halls Creek	West Branch Halls Creek @ Meadowvale Rd		1.27	1.32	0.5			7.96	0.5	23.1	6		2419			9.6	0.36
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28	28	1.19	1.24	0.5			8.02	0.5	22.9	2		3250			9.4	0.1
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	0.025	0.025	0.5			7.82	0.5	4.27	2		2419			18.1	0.57
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5			7.04	0.5	2.18	2		1518			17.7	0.37
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	0.06	0.1	0.5			7.91	0.5	4.9	2		816			12	0.1
North River	North River @ Pacific Junct Rd Bridge PWMG 9	9	0.03	0.08	0.5			8.02	0.5	40.9	1		2202.5			15.6	0.25
Pettitcodiac River	Pettitcodiac River @ Causeway Fishway PWMG 21	21	0.025	0.025	0.5			7.83	0.5	20.1	5		256			20.1	0.3
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.025	0.025	0.5			7.19	0.5	2.71	0		816			18	0.1
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	0.025	0.025	0.5			7.35	0.5	2.84	0		1869			17.6	0.1
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	0.025	0.025	0.5			7.05	0.5	3.67	0		2419			14.6	0.1
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	0.83	0.88	0.5			7.9	0.5	13.8	5		18450			13.6	0.5
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.77	0.83	0.5			7.99	0.5	12.1	6		36550			16.4	0.74
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5			7.23	0.5	3.02	3		2419			18.3	0.38
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	0.025	0.025	0.5			6.78	0.5	2.29	5		2419			18.5	0.48
Bennett Brook	Bennett Brook PWMG 6	6	0.04	0.09	0.5			8.04	0.5	57.5	1		2770			17.5	0.1
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.51	0.56	0.5			7.61	0.5	7.7	7		7085			21.5	0.77
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.06	0.11	1.4			7.71	0.5	4.85	12		11170			18.9	0.48
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	0.12	0.17	0.5			7.73	0.5	4.2	2		2419			17.6	0.65
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5			6.94	0.5	1.91	3		1769.5			22	0.57
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	0.09	0.14	0.5			8.05	0.5	5.02	1		2419			13.6	0.1
North River	North River @ bridge (Fawcett-Wheaton Sett) PWMG 7	7	0.025	0.025	0.5			7.78	0.5	97.5	1		1733			23.5	0.38
North River	North River @ Pacific Junct Rd Bridge PWMG 9	9	0.12	0.17	0.5			8.1	0.5	61.6	1		2419			17.8	0.24
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5			8.47	0.5	77.5	1		1553			25	0.3
North River	North River Below Rte 112 Bridge PWMG 8	8	0.025	0.05	0.5			7.82	0.5	101	1		2419			21.8	0.32
Pettitcodiac River	Pettitcodiac River @ Causeway Fishway PWMG 21	21	0.01	0.06	0.5			7.18	0.5	9.8	11		2540			23	0.85

Appendix 2. Water quality data from the Petlicodiac watershed, 1975-1999

Water body	Station	Station PWMG #	NO3 (mg/L)	NOX (mg/L)	Pb (µg/L)	PH (pH)	Client-fid Lamott	PH Lab (pH)	Sb (µg/L)	SO4 (mg/L)	SS (mg/L)	C-MPN average (MPN/100ml)	TDS (mg/L)	TEMP (Celsius)	Client-fid TEMP (Celsius)	Field-ELC TKN (mg/L as N)
Petlicodiac River	Petlicodiac River Above Rte 605 Bridge PWMG 3	3	0.025	0.025	0.5			8.3	0.5	64.5	2	2419	2419	19.4		0.34
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5			8.09	0.5	53.2	1	2419	2419	25.4		0.38
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	0.83	0.88	0.5			8.16	0.5	13.2	1	2419	2419	15.5		0.23
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.88	1	0.5			8.16	0.5	12.5	3	2419	2419	17.5		0.38
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5			7.87	0.5	36.9	0	2076	2076	21.2		0.1
Jonathan Creek	Jonathan Creek Below Horsman Road PWMG 23 (en dupl)	23	0.04	0.09	0.5			8.04	0.5	8.665	1.5	2419	2419	14.5		0.36
Jones Lake	Jones Lake PWMG 22	22	0.025	0.025	2.1			7.75	0.5	8.44	20	2285	2285	21.1		0.6
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5			7.75	0.5	4.53	1	2419	2419	19.7		0.1
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5			8.34	0.5	40	1	1473.5	1473.5	19		0.24
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5			8.51	0.5	30	1	1498.5	1498.5	19.5		0.25
Petlicodiac River	Petlicodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5			8.54	0.5	51	1	2419	2419	19.3		0.29
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5			7.61	0.5	4.48	1	1715	1715	18.8		0.1
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.07	0.12	0.5			7.25	0.5	2.78	0	694	694	15.7		0.1
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	0.06	0.1	0.5			7.35	0.5	2.91	0	1668.5	1668.5	17		0.1
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	0.025	0.05	0.5			7.58	0.5	4.46	0	1356.5	1356.5	14		0.1
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.025	0.025	0.5			7.71	0.5	3.21	0	1573.5	1573.5	14.8		0.1
Turtle Creek	Turtle Creek @ Bypass Channel		0.025	0.025	0.5			7.37	0.5	3.21	1	2419	2419			0.1
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	1.47	1.52	0.5			8.22	0.5	32.7	4	8610	8610	13.5		0.32
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	0.57	0.62	0.5			8.28	0.5	21.5	3	3525	3525	21.6		0.21
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5			7.32	0.5	4.17	1	1733	1733	21.8		0.24
Anagance River	Anagance River Above Rte 695 Bridge PWMG 1	1	0.025	0.025	0.5			6.67	0.5	2.33	2	2419	2419	20.5		0.34
Bennett Brook	Bennett Brook PWMG 6	6	0.04	0.08	0.5			8.08	0.5	145	1	1988	1988	20.2		0.2
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5			9.05	1.4	7.33	1	874	874	28		0.24
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5			7.11	0.5	2.4	1	907.5	907.5	21.3		0.52
North River	North River @ bridge (Fairview-Wheaton Sett) PWMG 7	7	0.025	0.025	0.5			7.87	0.5	201	1	2419	2419	23.1		0.25
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5			8.28	0.5	158	1	922	922	23.9		0.2
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5			8.48	0.5	61.2	0	750	750	26.7		0.22
Petlicodiac River	Petlicodiac River Above Rte 905 Bridge PWMG 3	3	0.025	0.025	0.5			8.03	0.5	119	1	1859.5	1859.5	23.1		0.2
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5			8.57	0.5	113	1	2419	2419	23.3		0.25
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5			8.56	2.1	48.9	1	862	862	26.7		0.2
Petlicodiac River	Petlicodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5			8.94	0.5	106	1	230	230	26.8		0.25
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5			7.58	0.5	7.24	1	2419	2419	27.2		0.1
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.01	0.06	0.5			7.17	0.5	2.69	1	637.5	637.5	25.6		0.1
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	0.01	0.06	0.5			7.19	0.5	2.89	1	853	853	25.2		0.1
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	0.025	0.025	0.5			7.4	0.5	6.78	1	447.5	447.5	22.7		0.1
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.02	0.07	0.5			7.68	0.5	3.46	1	1251.5	1251.5	21.6		0.1
Turtle Creek	Turtle Creek @ Bypass Channel		0.01	0.06	0.5			7.3	0.5	3.38	2	1733	1733	15.3		0.27
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5			7.9	0.5	50.7	1	1414	1414	21.6		0.1
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.39	0.44	0.5			8.04	0.5	15.2	4	2160	2160	21.1		0.48
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.025	0.025	2.2			7.99	0.5	7.44	4	3205	3205	20.2		0.5
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	0.03	0.08	0.5			7.87	0.5	4.18	2	2419	2419	19.1		0.55
Jonathan Creek	Jonathan Creek Below Horsman Road PWMG 23	23	0.06	0.11	0.5			8.06	0.5	9.74	3	5380	5380	21.5		0.32
Jones Lake	Jones Lake PWMG 22	22	0.025	0.025	2.2			7.95	0.5	10.1	30	6925	6925	23		0.66
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	0.1	0.15	0.5			7.92	0.5	4.79	1	765	765	12.9		0.2
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.11	0.18	0.5			8.15	1	94.2	0	792	792	20.3		0.1
North River	North River Below Rte 112 Bridge PWMG 8	8	0.025	0.025	0.5			8.12	0.5	194	1	1150	1150	22.6		0.26
Petlicodiac River	Petlicodiac River @ Causeway Fishway PWMG 21	21	0.025	0.025	0.5			7.54	0.5	28.4	5	1295	1295	23.2		0.4
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	0.81	0.86	0.5			7.87	1.1	14.7	6	8440	8440	15.1		0.34
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.34	0.44	1.2			8	0.5	11.8	8	7930	7930	19.5		0.88
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	1.1	1.15	0.5			8.04	0.5	53.4	2	5130	5130	16.5		0.25
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	0.53	0.58	0.5			7.81	0.5	30.9	6	3550	3550	20		0.36
Memramcook	Memramcook River @ Calhoun PWMG 35	35	0.025	0.025	0.5			7.46	0.5	2.38	1	1570	1570	25		0.34
Memramcook	Memramcook River @ College Bridge PWMG 36	36	0.12	0.23	1.3			8	22	204	26000	9140	9140	23		1.1
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.04	0.09	0.5			7.9	0.5	58.8	0	2419	2419	15		0.1
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5			7.39	0.5	58.5	0	2419	2419	16		0.41
North River	North River Below Rte 112 Bridge PWMG 8	8	0.025	0.025	0.5			7.34	0.5	55.3	0	2419	2419	15		0.32
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5			7.35	0.5	6.98	0	863.5	863.5	16.5		0.39
Anagance River	Anagance River Above Rte 695 Bridge PWMG 1 (en trip)	1	0.0250	0.0250	0.5000			8.0667	0.6667	4.0267	0.3333	2419.0000	2419.0000	18.5000		0.4100
Bennett Brook	Bennett Brook PWMG 6	6	0.06	0.1	0.5			8.11	0.5	249	0	1155	1155	18		0.24
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.79	0.84	8.5			7.72	0.5	15.9	30	2525	2525	19		0.74
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.01	0.06	0.5			7.66	3.5	3.33	0	950	950	17.5		0.5
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	0.08	0.13	1.3			7.83	0.5	11.8	7	2419	2419	18		0.58
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	0.06	0.11	0.5			7.85	2.5	15.7	4	2870	2870	19		0.44
Jones Lake	Jones Lake PWMG 22	22	0.28	0.31	1.9			7.81	2	16.6	40	1855	1855	20.5		0.86
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5			8.27	0.5	7.22	0	814.5	814.5	22		0.1
Memramcook	Memramcook River @ Calhoun PWMG 35	35	0.025	0.025	1.8			6.78	34.2	7.81	0	1267	1267	15.5		0.43
Memramcook	Memramcook River @ College Bridge PWMG 36	36	0.54	0.68	2			7.73	1.8	813	5200	5120	5120	17.5		1.12
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5			7.06	0.5	4.31	4	2076	2076	17.2		0.36
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	0.09	0.14	0.5			7.87	0.5	7.17	0	1968	1968	14		0.1
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5			7.99	0.5	65.6	0	1504.5	1504.5	19.8		0.4
Petlicodiac River	Petlicodiac River @ Causeway Fishway PWMG 21	21	0.025	0.025	0.5			7.76	0.5	52.4	12	715	715	20.4		0.26
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5			7.7	0.5	54.2	0	711	711	17.5		0.29
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5			7.64	0.5	41.4	0	1091.5	1091.5	19		0.29
Petlicodiac River	Petlicodiac River near mouth of Pollett R PWMG 10 (en trip)	10	0.025	0.025	0.5			7.71	0.5	64	0	1769.5	1769.5	19		0.36
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.026	0.025	0.5			7.66	0.6	7.13	4	1643	1643	19		0.1
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.01	0.06	0.5			7.14	0.5	2.94	0	945	945	15		0.1
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	0.025	0.025	0.5			7.22	0.5	3.14	0	1573.5	1573.5	17		0.1

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	NO3 (mg/L)	NOX (mg/L)	Pb (µg/L)	PH (pH)	Client-Id	Lamotri	PH Lab (pH)	Sb (µg/L)	SO4 (mg/L)	SS (mg/L)	C-MPN average (1 MPN/100ml)	TDS (mg/L)	TEMP (Celsius)	Client-Id	EMP (Celsius)	Field-EL (TKN (mg/L as N))
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	0.025	0.025	0.5				7.53	0.5	8.93	2		1020.5		17		0.1
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.08	0.13	0.5				7.86	0.5	3.8	0		1287		17		0.1
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	1.16	1.21	0.5				8.03	0.5	16.2	0		3650		18		0.37
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.07	1.03	0.5				7.84	0.5	15.4	5		2419		18.5		0.56
Turtle Creek	Turtle Creek @ Bypass Channel (en trip)		0.025	0.025	0.5				7.54333333	0.5	3.62666667	3		2078		12		0.34
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5				7.9	0.5	49.9	4		2419		20		0.1
West Branch Halls Cree	West Branch Halls Creek @ Briardale St PWMG 27	27	1.63	1.68	0.5				7.61	2.7	44.7	4		2419		16		0.46
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1.28	1.31	0.5				8.07	3.5	38.2	13		4850		16		0.5
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	0.025	0.025	0.5				8.06	0.5	99.9	1.1		583		21		0.68
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5				8.61	0.5	76.7	1.4		493.5		21		0.42
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	2.5				7.21	2.5	6.17	1		578		13		0.3
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	0.025	0.025	0.5				6.81	0.5	4.13	0.5		1428		8		0.1
Bennett Brook	Bennett Brook PWMG 6	6	0.025	0.025	0.5				7.87	5	301	0.7		650		8		0.1
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.28	0.33	0.5				7.81	0.5	13.4	21		1470		6		0.66
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.025	0.025	0.5				7.8	0.5	4.73	0		980		7		0.38
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	0.01	0.06	2.8				7.71	0.5	7.84	9		2419		5.5		0.42
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	0.025	0.025	0.5				7.93	0.5	13	0.6		1765		5.5		0.28
Jones Lake	Jones Lake PWMG 22	22	0.025	0.025	11.4				7.89	0.5	16.8	800		14285		9		1
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5				7.74	0.5	7.51	0		335.5		11		0.1
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5				6.87	0.5	7.41	2.3		1138.5		6		0.42
North Branch Halls Cree	North Branch Halls Creek PWMG 28	28	0.04	0.09	0.5				7.83	0.5	6.43	0.7		714.5		5.3		0.1
North River	North River @ Pacific Junc Rd Bridge PWMG 9 (en trip)	9	0.04	0.09	0.5				8.03666667	0.5	91.6333333	0		1082.5		4		0.1
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5				7.97	0.5	149	0.4		394.5		9		0.26
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5				7.61	0.5	159	0.6		1020.5		8		0.28
North River	North River Below Rte 112 Bridge PWMG 8	8	0.025	0.025	0.5				7.65	0.5	148	0		649		6		0.1
Petitcodiac River	Petitcodiac River @ Causeway Fishway PWMG 21	21	0.025	0.025	0.5				7.54	0.5	56.7	3		835		9		0.4
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5				7.93	0.5	87.7	0.3		625.5		10		0.1
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	0.025	0.025	0.5				7.87	0.5	137	4.7		2419		12		0.47
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5				8.28	0.5	139	1.8		980		8		0.38
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5				7.76	0.5	67.3	2.8		399		10		0.1
Petitcodiac River	Petitcodiac River near mouth of Pollitt R PWMG 10	10	0.025	0.025	0.5				7.95	0.5	123	0		283.5		5		0.2
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5				7.35	0.5	7.5	0.3		502.5		5		0.1
Pollitt River	Pollitt River @ Church's Corner PWMG 14 (en trip)	14	0.025	0.025	0.5				7.07333333	0.5	3.4	0.66666667		403		10		0.1
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	0.025	0.025	0.5				7.17	0.5	3.55	0		793		10		0.1
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	0.025	0.025	0.5				7.34	0.5	7.05	0		355		8.5		0.1
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.025	0.025	0.5				7.77	0.5	3.22	0		389.5		9		0.1
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25 (en trip)	25	0.69	0.74	0.5				8.14666667	0.5	14.5	0.8		3305		9		0.4
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.61	0.77	0.5				7.91	0.5	13.6	3.77		15630		5		0.54
Turtle Creek	Turtle Creek @ Bypass Channel		0.03	0.08	0.5				7.66	0.5	7.41	1.4		70		9		0.22
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5				7.62	0.5	77.4	0		312.5		7		0.1
West Branch Halls Cree	West Branch Halls Creek @ Briardale St PWMG 27	27	1.48	1.53	0.5				7.87	0.5	61.6	0.6		2419		5		0.32
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1.02	1.07	0.5				8.08	0.5	48.6	7.4		2010		5		0.32
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5				7.28	0.5	3	3		2419				16.7
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	0.025	0.025	0.5				6.89	0.5	2.25	3		2419				18.1
Bennett Brook	Bennett Brook PWMG 6	6	0.06	0.11	0.5				7.31	0.5	77.1	20		2419				15.5
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5				7.69	0.5	3.58	2		2490				21.4
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5				7.18	0.5	2.1	2		1553				20.5
North River	North River Above Rte 885 Bridge PWMG 5	5	0.07	0.12	0.5				7.32	0.5	70.7	12		2419				17.7
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5				7.84	0.5	3	2		2480				18.2
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5				7.91	0.5	46.8	3		9800				19.2
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	0.18	0.23	0.5				7.69	0.5	77.3	30		24190				16.3
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.13	0.18	0.5				7.28	0.5	66.8	5		2419				17.1
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5				7.79	0.5	24.3	2		2419				18.7
Petitcodiac River	Petitcodiac River near mouth of Pollitt R PWMG 10	10	0.025	0.025	0.5				7.84	0.5	66.3	3		4110				18.5
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5				7.39	0.5	3.05	10		2419				18.7
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	0.01	0.06	0.5				6.95	0.5	2.03	1		2419				15
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	0.01	0.06	0.5				7.08	0.5	1.88	1		2419				15.6
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	0.025	0.05	0.5				7.16	0.5	2.28	2		2419				16.7
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.025	0.06	0.5				7.6	0.5	2.98	1		2419				18.1
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	0.025	0.05	0.5				7.09	0.5	3.05	1		2419				7.1
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5				7.71	0.5	9.67	1		2419				16.3
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.24	0.29	1.2				7.78	0.5	5.78	20		2419				20.7
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.04	0.09	1.8				7.88	0.5	4.85	4		24190				20
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	0.025	0.05	0.5				7.68	0.5	3.41	1		2419				20.5
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	0.08	0.11	0.5				5.24	0.5	5.58	2		691				18
Jones Lake	Jones Lake PWMG 22	22	0.025	0.025	2.5				8	0.5	7.82	40		1680				20.5
North Branch Halls Cree	North Branch Halls Creek PWMG 28	28	0.07	0.12	0.5				7.96	0.5	4.72	0		2419				13.6
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.03	0.06	0.5				7.79	0.5	18	1		2419				16.1
North River	North River Below Rte 112 Bridge PWMG 8	8	0.025	0.025	0.5				7.6	0.5	18.3	4		2419				17
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	0.63	0.68	0.5				8.27	0.5	10.8	2		24190				12.7
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.66	0.73	0.5				7.97	0.5	11.2	6		24190				12.7
West Branch Halls Cree	West Branch Halls Creek @ Briardale St PWMG 27	27	2.04	2.1	0.5				8.2	0.5	30.7	2		8130				14.6
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1.35	1.41	0.5				8.1	0.5	24.6	11		2419				18.1
Petitcodiac River	Petitcodiac River @ Sin 4																	25
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5				7.61	0.5	4.74	1		2419				22.9
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	0.025	0.025	0.5				7	0.5	1.72	4		1011				21.8
Bennett Brook	Bennett Brook PWMG 6	6	0.025	0.025	0.5				8.21	0.5	266	2		2419				24.6
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5				6.65	0.5	231	0		1733				24.9

Appendix 2. Water quality data from the Petiscodiac watershed, 1975-1999

Water body	Station	Station PWMG #	NO3 (mg/L)	NOX (mg/L)	Pb (µg/L)	PH (pH)	Client-Id	Lamotte	PH Lab (pH)	Sb (µg/L)	SO4 (mg/L)	SS (mg/L)	C-MPN average (1 MPN/100ml)	TDS (mg/L)	TEMP (Celsius)	Client-Id	TEMP (Celsius)	Field-ELCTKN (mg/L as N)
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5				8.01	0.5	259	3	2100				24.2	0.27
North River	North River Below Rte 112 Bridge PWMG 8	8	0.025	0.025	0.5				7.99	0.5	245	30	1986				24.4	0.22
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	0.025	0.025	0.5				8.26	0.5	139	0	800				24.5	0.24
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5				9.2	0.5	138	2	3280				25.6	0.29
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	0.025	0.025	0.5				7.33	0.5	2.7	0	770				21.4	0.1
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	0.025	0.025	0.5				7.47	0.5	3.23	0	2419				21.6	0.1
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	0.025	0.025	0.5				7.79	0.5	5.72	0	1300				20.1	0.1
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.025	0.05	0.5				7.57	0.5	3.8	20	2419				20	0.1
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.51	0.56	3.4				7.61	0.5	10.9	100	2419				18	0.64
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	0.04	0.09	0.5				8.06	0.5	13.2	20	2419				17.6	0.5
Little River	Little River near mouth PWMG 17	17	0.025	0.05	0.5				7.72	0.5	6.57	8	2419				19.2	0.1
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.05	0.5				7.19	0.5	2.51	4	2419				20.5	0.51
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.06	0.14	0.5				8.18	0.5	70.8	1	2419				18.9	0.28
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	0.01	0.06	0.5				7.79	0.5	52.9	1	2419				19.8	0.1
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.05	0.5				7.8	0.5	46.6	1	2419				19.3	0.1
Petitcodiac River	Petitcodiac River near mouth of Pollitt R PWMG 10	10	0.01	0.06	0.5				7.74	0.5	129	1	2419				19.8	0.24
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	0.01	0.06	0.5				7.54	0.5	6.02	1	2419				19.5	0.1
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.02	0.07	0.5				7.83	0.5	1.27	0	2419				18.4	0.1
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.23	0.28	1.7				7.75	0.5	17.1	30	24190				18.7	0.67
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	0.06	0.1	0.9				7.95	0.5	6.32	1	2419				14.6	0.45
Jones Lake	Jones Lake PWMG 22	22	0.025	0.025	3.1				8.23	0.5	10.3	100	2380				19.9	1.42
North Branch Halls Cree	North Branch Halls Cree PWMG 28	28	0.09	0.14	0.5				8	0.5	6.38	1	2419				11.8	0.1
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	0.71	0.76	0.5				7.87	0.5	18.5	5	24190				13	0.28
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.87	0.92	0.5				7.93	0.5	19.7	12	24190				14.1	0.54
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	0.04	0.09	0.5				7.04	0.5	3.66	1	980				12.3	0.21
West Branch Halls Cree	West Branch Halls Cree @ Briardale St PWMG 27	27	1.47	1.52	0.5				8.03	0.5	60	7	4880				13.2	0.29
West Branch Halls Cree	West Branch Halls Cree @ Wheeler Blvd PWMG 26	26	1.02	1.07	1.1				8.03	0.5	44.2	20	24190				15.2	0.38
Petitcodiac River	Petitcodiac River @ Sin 4																	
Anagance River	Anagance River Above Mouth PWMG 2 (en trip)	2	0.025	0.025	0.5			7.25	7.47333333	0.5	4.02333333	1.13333333	1116.666667			13	0.22333333	
Bennett Brook	Bennett Brook PWMG 8	8	0.025	0.025	0.5			8	7.99	0.5	301	15	1733			13.5	0.1	
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.2	0.25	0.5			7.25	7.49	0.5	8.96	26.5	6490			15	0.72	
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.025	0.05	0.5			7.5	7.71	0.5	4.39	1.7	1960			15	0.53	
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	0.02	0.07	1.1			8.2	7.79	0.5	5.85	6.1	2419			15	0.48	
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23) (en trip)	23	0.025	0.025	0.5			8	8.05	0.5	15.4	2.66666667	2253.333333			14	0.3	
Jones Lake	Jones Lake PWMG 22	22	0.025	0.05	2.3			8	7.95	0.5	15.5	15	8160			16	0.67	
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5			7.8	7.94	0.5	5.59	0.2	470			17	0.1	
Memramcook	Memramcook River @ Calhoun PWMG 35	35	0.02	0.07	0.5			6.25	6.37	0.5	6.82	1.3	2419			13.5	0.74	
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5			6.5	7.28	0.5	4.45	19.2	2419			16	0.53	
North Branch Halls Cree	North Branch Halls Cree PWMG 28	28	0.05	0.1	0.5			7.7	8.01	0.5	5.52	0.4	649			13	0.1	
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.02	0.07	0.5			7.7	8.13	0.5	76.7	0.1	1300			13	0.27	
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5			7.75	8.11	0.5	162	0.1	330			14.5	0.26	
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5			7.5	7.9	0.5	175	0.8	460			13	0.28	
North River	North River Below Rte 112 Bridge PWMG 8	8	0.025	0.025	0.5			7.5	7.85	0.5	125	1	2419			11.5	0.34	
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5			8	8.11	0.5	65.2	0.5	770			16	0.1	
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	0.025	0.025	0.5			7.75	8.02	0.5	133	0.7	500			14	0.21	
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5			7.75	7.98	0.5	130	2.7	12030			14	0.42	
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5			7.8	7.88	0.5	58.5	1.3	860			15	0.1	
Petitcodiac River	Petitcodiac River near mouth of Pollitt R PWMG 10	10	0.025	0.025	0.5			7.5	7.96	0.5	125	0.4	790			15	0.24	
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5			7.5	7.64	0.5	5	0.2	1733			15	0.1	
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	0.025	0.06	0.5			7	7.27	0.5	2.87	0	411			13	0.1	
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	0.025	0.025	0.5			7	7.37	0.5	2.72	0.3	849			13.5	0.1	
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	0.025	0.025	0.5			7	7.46	0.5	4.42	3.4	517			12	0.1	
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.025	0.025	0.5			7.7	7.94	0.5	3.49	0	387			15	0.1	
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	0.51	0.56	0.5			7.5	7.95	0.5	11.3	6.9	24190			15	0.26	
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.53	0.58	2			7.5	7.95	0.5	11.5	15	24190			14	0.38	
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	0.1	0.15	0.5			6.25	7.56	0.5	4.41	4.8	849			15	0.38	
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5			8.1	7.92	0.5	41.9	0	548			15	0.1	
West Branch Halls Cree	West Branch Halls Cree @ Briardale St PWMG 27	27	0.91	0.96	0.5			7.75	8.01	0.5	36.8	2.4	2419			15	0.34	
West Branch Halls Cree	West Branch Halls Cree @ Wheeler Blvd PWMG 26	26	0.84	0.89	0.5			7.75	7.79	0.5	28.3	10.6	8660			14	0.27	
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5			6.75	7.07	0.5	5.82	6.8	2419			10.5	0.42	
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	0.025	0.025	0.5			5.75	6.89	0.5	4.93	3.5	2419			10.5	0.56	
Bennett Brook	Bennett Brook PWMG 8	8	0.19	0.24	0.5			8	7.87	0.5	197	2.8	17330			10.5	0.5	
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.17	0.22	1.6			6.9	7.13	0.5	6.31	44	24190			10	0.64	
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.025	0.05	0.5			7	7.69	0.5	8.87	9.4	2419			11	0.82	
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	0.025	0.025	0.5			7.2	7.47	0.5	6.73	2.8	2419			10	0.6	
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	0.025	0.025	0.5			8	7.9	0.5	15.9	2.8	8160			10	0.52	
Jones Lake	Jones Lake PWMG 22	22	0.31	0.38	3.1			7.5	7.74	0.5	19.1	16.6	12030			11	0.61	
Little River	Little River near mouth PWMG 17 (en trip)	17	0.025	0.025	0.5			7.75	7.60333333	0.5	3.95666667	1	625.333333			11	0.19666667	
Memramcook	Memramcook River @ Calhoun PWMG 35	35	0.025	0.025	0.5			6.25	6.48	0.5	2.77	4.6	2419			10	0.62	
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5			6.5	6.59	0.5	3.31	8	2419			10	0.85	
North Branch Halls Cree	North Branch Halls Cree PWMG 28	28	0.025	0.06	0.5			7.5	7.94	0.5	5.82	2	2419			10	0.28	
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.025	0.025	0.5			7	7.89	0.5	48.7	1	2419					

Appendix 2. Water quality data from the Petlicodiac watershed, 1975-1999

Water body	Station	Station PWMG #	NO3 (mg/L)	NOX (mg/L)	Pb (µg/L)	PH (pH)	Client-Rd Lamott	PH Lab (pH)	Sb (µg/L)	SO4 (mg/L)	SS (mg/L)	C-MPN average (MPN/100ml)	TDS (mg/L)	TEMP (Celsius)	Client-Rd TEMP (Celsius)	Field-ELC	TKN (mg/L as N)
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5	7.5	7.57	0.5	36.2	11	2419	11.5	158.263	11.5	16.3	0.24	0.33
Petlicodiac River	Petlicodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5	7.5	7.71	0.5	91.6	6	2419	10	129.606	10	9.8	0.1	0.34
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.02	0.07	0.5	7.5	7.3	0.5	3.96	31.8	2419	10	163.919	11.1	0.27	0.34	0.4
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.025	0.025	0.5	7	7.13	0.5	2.72	0.2	849	10	225.532	13.6	0.34	0.1	0.1
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	0.025	0.025	0.5	7	7.28	0.5	2.85	0.4	1414	11	231.059	14.2	0.29	0.1	0.1
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	0.06	0.11	0.5	6.75	7.08	0.5	2.71	26.8	2419	9	195.702	15.1	0.26	0.1	0.41
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.025	0.025	0.5	7.75	7.64	0.5	2.92	1	1733	10.5	193.935	15.6	0.24	0.1	0.1
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	0.6	0.65	1.3	8.5	7.92	0.5	13.8	14	2419	13	171.124	19.8	0.44	0.1	0.66
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.42	0.47	2.2	7.5	7.75	0.5	8.65	41.4	15530	10.5	167.132	15.1	0.26	0.1	0.48
Turtle Creek	Turtle Creek @ Bypass channel by pump house PWMG 19	19	0.025	0.025	0.5	7.2	7.42	0.5	4.74	1.6	133	11	204.236	16	0.28	0.1	0.44
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5	7	7.32	0.5	8.34	9.8	2419	10	177.196	14.7	0.22	0.1	0.34
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	0.82	0.87	0.5	7.75	7.97	0.5	28.8	8.2	2419	11.5	42.402	22.2	0.43	0.1	0.46
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 28 (en t	28	0.58666667	0.63666667	0.5	7.75	7.91333333	0.5	23.5333333	20.4333333	2419	11.5	44.937	19	25.9	0.1	0.42
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		0.13	0.13	0.5	7.96	0.5	7.94	7.5				530.283	28.3	0.23	0.1	0.1
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		0.28	0.28	0.5	8.02	0.5	27.8	7.5				634.412	23.5	0.23	0.1	0.1
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		0.36	0.36	0.5	7.89	0.5	34.9	7.5				682.157	24.4	0.31	0.1	0.1
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		0.25	0.25	0.5	7.63	0.5	21.4	7.5				754.114	25.4	0.25	0.1	0.1
Jonathan Creek	Jonathan Creek 3 near exit ramp		0.22	0.22	0.5	7.82	0.5	19.4	7.5				144.086	25.2	0.1	0.1	0.1
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		0.21	0.21	0.5	8.02	0.5	18.4	7.5				389.825	22.8	0.31	0.1	0.1
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		0.19	0.19	0.5	7.99	0.5	14.4	7.5				115.406	25.5	0.1	0.1	0.1
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		0.12	0.12	0.5	8.17	0.5	4.88	7.5				350.89	25.3	0.1	0.1	0.1
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	0.19	0.19	0.5	8.01	0.5	13.2	7.5				28.631	25.2	0.1	0.1	0.1
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		0.18	0.18	0.5	7.97	0.5	12.1	7.5				13.942	18.5	0.1	0.1	0.1
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		0.17	0.17	0.5	8.01	0.5	8.48	7.5				481.562	24.1	0.46	0.1	0.1
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5	7.59	0.5	4.33	7.5				201.517	16.1	0.32	0.1	0.1
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	0.025	0.025	0.5	7.14	0.5	2.24	7.5				190.838	22.5	0.51	0.1	0.1
Bennett Brook	Bennett Brook near mouth PWMG 45	45	0.025	0.025	0.5	8.41	0.5	192	7.5				51.983	28.5	0.36	0.1	0.1
Little River	Little River below Prosser Brook PWMG 41	41	0.025	0.025	0.5	7.72	0.5	3.88	7.5				59.842	27.5	0.44	0.1	0.1
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5	7.65	0.5	5.02	7.5				223.515	16.7	0.1	0.1	0.1
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5	8.75	0.5	195	7.5				116.008	26.1	0.1	0.1	0.1
North River	North River above Rte. 880 crossing PWMG 43	43	0.025	0.025	0.5	8.01	0.5	243	7.5				307.778	16	0.57	0.1	0.1
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5	7.97	0.5	234	7.5				135.193	12	0.23	0.1	0.1
North River	North River below Tingley Hill Bridge PWMG 40	40	0.025	0.025	0.5	8.46	0.5	222	7.5				194.689	13	0.42	0.1	0.1
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5	8.5	0.5	38.1	7.5				207.529	14	0.4	0.1	0.1
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5	8.75	0.5	102	7.5				249.112	14	0.38	0.1	0.1
Petlicodiac River	Petlicodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5	8.09	0.5	30.9	7.5				230.495	15	0.38	0.1	0.1
Petlicodiac River	Petlicodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5	8.76	0.5	96.2	7.5				230.156	15	0.36	0.1	0.1
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5	7.8	0.5	4.48	7.5				345.949	16	0.63	0.1	0.1
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.1	0.1	0.5	7.32	0.5	2.84	7.5				252.292	15	0.46	0.1	0.1
Fox Creek	Fox Creek at route 108 PWMG 31	31	0.28	0.3	0.5	8.04	0.5	24	7.5				261.422	16	0.46	0.1	0.1
Halls Creek	Halls Creek near mouth PWMG 44	44	0.32	0.32	0.5	7.92	0.5	18.1	7.5				314.618	15	0.46	0.1	0.1
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.17	0.17	0.5	8.05	0.5	8.37	7.5				50.742	21.3	0.65	0.1	0.1
Memramcook	Memramcook River @ Calhoun PWMG 35	35	0.025	0.025	0.5	7.8	0.5	2.59	7.5				1343.194	22	0.27	0.1	0.1
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5	7.41	0.5	2.85	7.5				275.79	21.9	0.56	0.1	0.1
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.11	0.11	0.5	8.18	0.5	83.9	7.5				187.039	16.7	0.4	0.1	0.1
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5	8	0.5	52.8	7.5				212.814	21.7	0.27	0.1	0.1
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		0.4	0.4	0.5	7.74	0.5	20.2	30				587.118	23.7	0.31	0.1	0.1
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		0.3	0.3	0.5	8.21	0.5	28.4	7.5				667.733	23.5	0.34	0.1	0.1
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		0.18	0.18	0.5	8.11	0.5	27	7.5				191.947	24.9	0.97	0.1	0.1
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		0.36	0.36	0.5	7.97	0.5	28.3	7.5				65.506	23.2	0.37	0.1	0.1
Jonathan Creek	Jonathan Creek 3 near exit ramp		0.28	0.28	0.5	8.02	0.5	25.5	7.5				294.581	25.9	0.24	0.1	0.1
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		0.28	0.28	0.5	8.03	0.5	22.9	7.5				457.857	26	0.51	0.1	0.1
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		0.24	0.24	0.5	8.04	0.5	21.3	7.5				16.23	25.8	0.1	0.1	0.1
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		0.57	0.57	0.5	7.74	0.5	13.9	40								
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	0.27	0.27	0.5	7.94	0.5	10.9	7.5								
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		0.35	0.35	0.5	7.97	0.5	19.2	15								
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		0.39	0.39	0.5	7.78	0.5	19.7	20								
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	0.025	0.025	0.5	7.1	0.5	1.98	7.5								
Bennett Brook	Bennett Brook near mouth PWMG 45	45	0.025	0.025	0.5	8.46	0.5	260	7.5								
Fox Creek	Fox Creek at route 108 PWMG 31	31	0.1	0.1	0.5	8.12	0.5	12.7	20								
Halls Creek	Halls Creek near mouth PWMG 44	44	0.38	0.38	0.5	7.87	0.5	16.8	7.5								
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.07	0.07	0.5	8.26	0.5	75.4	7.5								
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5	8.14	0.5	224	7.5								
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5	8.06	0.5	244	7.5								
Jones Lake	Jones Lake PWMG 22	22	0.025	0.025	0.5	8	0.5	9.97	40								
Memramcook	Memramcook River @ Calhoun PWMG 35	35	0.025	0.025	0.5	7.82	0.5	2.52	7.5								
Petlicodiac River	Petlicodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5	7.96	0.5	90.6	7.5								
Petlicodiac River	Petlicodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5	8.63	0.5	121	7.5								
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.06	0.06	0.5	7.37	0.5	2.4	7.5								
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		0.28	0.28	0.5	7.77	0.5	13.2	30								
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		0.25	0.25	0.5	7.74	0.5	30.6	7.5								
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		0.41	0.41	0.5	7.84	0.5	18.3	7.5								
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		0.2	0.2	0.5	7.46	0.5	18.4	7.5								
Jonathan Creek	Jonathan Creek 3 near exit ramp		0.2	0.2	0.5	7.56	0.5	16.4	7.5								
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		0.16	0.16	0.5	7.59	0.5	15.9	7.5								

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	NO3 (mg/L)	NOX (mg/L)	Pb (µg/L)	PH (pH)	Client-Iid Lamolt	PH Lab (pH)	Sb (µg/L)	SO4 (mg/L)	SS (mg/L)	C-MPN average ((MPN/100ml)	TDS (mg/L)	TEMP (Celsius)	Client-Iid TEMP (Celsius)	Field-ELC TKN (mg/L as N)	
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		0.23	0.23	0.5			7.74	0.5	13.6	30					18	0.7
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		0.27	0.27	0.5			7.78	0.5	13.6	30					16	0.71
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1.36	1.36	1.1			7.51	0.5	12.7	210						1.66
Fox Creek	Fox Creek at route 108 PWMG 31	31	0.46	0.46	1.24			7.24	0.5	8.77	170				19		0.89
Jones Lake	Jones Lake PWMG 22	22	0.42	0.42	0.5			7.45	0.5	17.5	7.5				23		0.91
Little River	Little River below Prosser Brook PWMG 41	41	0.09	0.09	0.5			7.63	0.5	2.28	7.5				20		0.1
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5			8.1	0.5	5.33	7.5				23		0.33
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35	0.025	0.025	0.5			6.905	0.5	3.495	7.5				19.5		0.615
North River	North River @ Pacific Junc'd Rd Bridge PWMG 9	9	0.025	0.025	0.5			8.02	0.5	96	7.5				21		0.27
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5			7.82	0.5	128	7.5				20		0.44
North River	North River above Rte. 880 crossing PWMG 43	43	0.025	0.025	0.5			7.58	0.5	143	7.5				24.5		0.54
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5			8.05	23.35	54.3	7.5				24		0.38
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5			8	0.5	42.6	7.5				23		0.33
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	1.35	1.35	1.15			7.69	0.5	12.6	140						1.96
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5			7.82	0.5	84.9	7.5				18		0.1
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5			7.2	1.36	3.7	7.5						0.4
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	0.025	0.025	0.5			6.29	0.5	1.57	7.5						0.86
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.19	0.19	0.5			7.69	1.28	7.98	7.5						18.4
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5			6.61	0.5	6.51	7.5						0.63
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5			7.43	0.5	164	7.5						0.76
North River	North River below Tingley Hill Bridge PWMG 40	40	0.025	0.025	0.5			8.4	1.96	216	7.5						0.47
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5			8.92	1.94	109	7.5						0.27
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5			8.53	0.5	112	7.5						0.47
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5			7.49	0.5	6.59	7.5						0.35
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.025	0.025	0.5			7.11	0.5	2.94	7.5						0.1
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		0.18	0.18	0.5			7.78	0.5	15.6	7.5						0.1
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		0.31	0.31	0.5			7.72	0.5	32.3	7.5						0.43
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		0.13	0.13	0.5			7.62	0.5	20.3	7.5						0.27
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		0.21	0.21	0.5			7.38	0.5	21.1	7.5						0.48
Jonathan Creek	Jonathan Creek 3 near exit ramp		0.14	0.14	0.5			7.45	0.5	21.2	7.5						0.42
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		0.07	0.07	0.5			7.73	0.5	17.8	7.5						0.38
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		0.08	0.08	0.5			7.72	0.5	16.4	7.5						0.41
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		0.14	0.14	0.5			7.62	0.5	9.48	7.5						0.41
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	0.09	0.09	0.5			7.73	0.5	15.4	7.5						0.66
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		0.14	0.14	0.5			7.68	0.5	15.6	7.5						0.52
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		0.19	0.19	0.5			7.8	0.5	15.6	7.5						0.46
Anagance River	Anagance River Above Mouth PWMG 2	2	0.13	0.13	1.02			6.94	0.5	3.63	120						0.42
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	0.025	0.025	0.5			6.83	0.5	2.43	7.5						0.55
Bennett Brook	Bennett Brook PWMG 6	6	1.29	1.29	0.5			7.11	0.5	89.1	100						14.9
North River	North River Above Rte 885 Bridge PWMG 5	5	0.77	0.77	1.94			7.37	0.5	42.9	170						0.48
North River	North River below bridge on Morton Rd PWMG 7	7	0.48	0.48	0.5			7.53	0.5	84.9	7.5						14.7
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.21	0.21	1.62			7.53	0.5	62.2	90						14.3
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5			6.7	0.5	3.11	7.5						14.8
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	0.025	0.025	0.5			6.27	0.5	2.58	7.5						15.2
Bennett Brook	Bennett Brook PWMG 6	6	0.06	0.06	0.5			7.63	0.5	81.5	7.5						0.73
Fox Creek	Fox Creek at route 108 PWMG 31	31	0.14	0.14	0.5			6.95	0.5	4.6	7.5						0.7
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.1	0.1	0.5			7.19	0.5	5.67	7.5						15.7
Jones Lake	Jones Lake PWMG 22	22	0.28	0.28	2.62			7.14	0.5	13.2	50						0.31
Little River	Little River below Prosser Brook PWMG 41	41	0.025	0.025	0.5			7.23	0.5	3.21	7.5						0.44
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5			7.74	0.5	3.62	7.5						0.72
Memramcook	Memramcook River @ Calhoun PWMG 35	35	0.025	0.025	0.5			7.22	0.5	2.33	7.5						0.69
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5			7.47	0.5	56	7.5						0.73
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5			7.2	0.5	58.6	7.5						0.1
North River	North River below Tingley Hill Bridge PWMG 40	40	0.06	0.06	0.5			5.61	0.5	78.6	7.5						0.56
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5			7.55	0.5	21.4	7.5						0.4
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5			7.3	0.5	40	7.5						0.58
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5			7.22	0.5	16.9	7.5						0.31
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5			7.21	0.5	33.5	7.5						0.39
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5			7.24	0.5	3.6	7.5						0.26
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.025	0.025	0.5			7.06	0.5	2.66	7.5						0.35
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.73	0.73	0.5			6.71	0.5	11.8	7.5						0.1
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5			6.14	0.5	2.34	7.5						0.1
North River	North River @ Pacific Junc'd Rd Bridge PWMG 9	9	0.05	0.05	0.5			7.58	0.5	32.4	7.5						0.3
North River	North River above Rte. 880 crossing PWMG 43	43	0.025	0.025	0.5			7.27	0.5	45.7	7.5						0.43
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	0.025	0.025	0.5			7.14	0.5	2.93	7.5						0.32
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26 (en d	26	2.1	2.1	0.5			7.6	0.5	22.2	7.5						0.51
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		0.06	0.06	0.5			7.46	0.5	7.32	7.5						0.1
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		0.08	0.08	0.5			7.46	0.5	15.6	7.5						0.47
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		0.14	0.14	0.5			7.48	0.5	9.48	7.5						0.42
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		0.09	0.09	0.5			7.31	0.5	10.6	7.5						0.38
Jonathan Creek	Jonathan Creek 3 near exit ramp		0.08	0.08	0.5			7.32	0.5	9.36	7.5						0.42
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		0.06	0.06	0.5			7.34	0.5	8.29	7.5						0.41
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		0.025	0.025	0.5			7.33	0.5	7.72	7.5						0.4
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		0.05	0.05	0.5			7.26	0.5	3.9	7.5						0.49
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	0.025	0.025	0.5			7.3	0.5	7.11	7.5						0.48
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		0.025	0.025	0.5			7.35	0.5	8.73	7.5						0.41
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		0.06	0.06	0.5			7.44	0.5	7.54	7.5						0.41
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5			7	0.5	3.45	7.5						0.25

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	NO3 (mg/L)	NOX (mg/L)	Pb (µg/L)	PH (pH)	Client-fid Lamotte	PH Lab (pH)	Sb (µg/L)	SO4 (mg/L)	SS (mg/L)	C-MPN average (MPN/100ml)	TDS (mg/L)	TEMP (Celsius)	Client-fid TEMP (Celsius)	Field-ELC (TKN (mg/L as N))
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1		0.025	0.025	0.5			6.68	0.5	2.87	7.5		23.193			0.31
Bennett Brook	Bennett Brook PWMG 6	1	0.06	0.06	0.5			7.74	0.5	87.6	7.5		404.389			0.24
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5			5.78	0.5	2.14	7.5		18.057			0.37
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5			7.61	0.5	46.3	7.5		137.548			0.4
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5			7.45	0.5	50.1	7.5		149.708			0.38
North River	North River below Tingley Hill Bridge PWMG 40	40	0.05	0.05	0.5			7.74	0.5	77.8	7.5		236.136			0.38
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5			7.51	0.5	37.8	7.5		131.1			0.28
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.025	0.025	0.5			8.91	0.5	2.56	7.5		12.715			0.1
Fox Creek	Fox Creek at route 108 PWMG 31	31	0.15	0.15	0.5			7.24	0.5	5.07	7.5					0.51
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.05	0.05	0.5			7.38	0.5	6.74	7.5					0.52
Jones Lake	Jones Lake PWMG 22	22	0.13	0.14	2.0			7.55	0.5	10.2	20					0.56
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35	0.025	0.025	0.5			6.37	0.5	2.355	7.5		23.128			0.38
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.08	0.08	0.5			7.8	0.5	39.9	7.5		120.274			0.23
North River	North River above Rte. 880 crossing PWMG 43	43	0.025	0.025	0.5			7.58	0.5	79.7	7.5		212.185			0.33
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5			7.48	0.5	27.1	7.5		99.837			0.2
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5			7.42	0.5	21.2	7.5		81.665			0.1
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5			7.57	0.5	39.4	7.5		143.893			0.27
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5			7.21	0.5	3.73	7.5		21.553			0.1
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	0.025	0.025	0.5			7.14	0.5	3.34	7.5		18.882			0.1
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.54	0.58	0.5			8.01	0.5	12.2	7.5		270.574			0.32
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5			7.45	0.5	12.8	7.5		45.951			0.1
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1.25	1.28	0.5			7.94	0.5	23.8	7.5		196.746			0.29
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.07	0.08	0.5			7.38	0.5	4.07	7.5		94.402			0.52
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		0.18	0.18	0.5			7.77	0.5	8.92	7.5		112.41	18		0.48
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		0.025	0.08	0.5			7.78	0.5	14.1	7.5		89.03	15		0.41
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		0.025	0.27	0.5			7.79	0.5	9.8	7.5		113.625	18		0.65
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		0.025	0.1	0.5			7.47	0.5	8.53	7.5		73.525	17		0.54
Jonathan Creek	Jonathan Creek 3 near exit ramp		0.025	0.1	0.5			7.52	0.5	8.27	7.5		81.436	17		0.49
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		0.1	0.1	0.5			7.84	0.5	8.01	7.5		78.397	17		0.8
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		0.1	0.1	0.5			7.73	0.5	8.06	7.5		85.175			0.49
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		0.1	0.1	0.5			7.68	0.5	8.03	7.5		82.781	17		0.62
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		0.15	0.15	0.5			7.93	0.5	7.22	7.5		186.269	19		0.54
Jonathan Creek	Jonathan Creek 7 - Below Horman Road (PWMG 23)	23	0.11	0.11	0.5			7.74	0.5	7.33	7.5		86.186	18		0.57
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		0.12	0.12	0.5			7.74	0.5	8.31	7.5		94.732	19		0.49
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		0.15	0.15	0.5			7.82	0.5	8.83	7.5		111.782	19		0.45
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5			7.7	0.5	3.9	7.5		55.472		20.5	0.24
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	0.025	0.025	0.5			7.1	0.5	2.68	7.5		58.876		2.4	0.41
Bennett Brook	Bennett Brook PWMG 6	6	0.025	0.025	0.5			8.22	0.5	221	7.5		1148.404		19.5	0.25
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		0.1	0.11	0.5			8.04	0.5	14.8	43		205.844	19		0.8
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		0.14	0.15	0.5			8	0.5	25.5	7.5		121.729	16		0.25
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		0.18	0.19	0.5			7.92	0.5	20.4	7.5		165.36	18		0.45
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		0.14	0.16	0.5			7.68	0.5	17.1	28		151.785	17		0.8
Jonathan Creek	Jonathan Creek 3 near exit ramp		0.12	0.13	0.5			7.84	0.5	16.2	7.5		181.975	18		0.39
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		0.07	0.08	0.5			8.08	0.5	15.4	7.5		151.077	18		0.38
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		0.05	0.07	0.5			8.06	0.5	14.7	7.5		158.048	18		0.38
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		0.13	0.15	0.5			8.09	0.5	6.7	7.5		234.299	20		0.51
Jonathan Creek	Jonathan Creek 7 - Below Horman Road (PWMG 23)	23	0.08	0.08	0.5			8.02	0.5	14.4	7.5		189.83	18		0.4
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		0.09	0.09	0.5			8.03	0.5	14.3	7.5		183.296	17		0.36
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		0.11	0.11	0.5			8.12	0.5	14.6	7.5		207.438	18		0.45
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		0.11	0.11	0.5			8.13	0.5	15	7.5		208.622			0.34
Little River	Little River below Prosser Brook PWMG 41	41	0.025	0.025	0.5			7.84	0.5	3.68	7.5		37.044		18.7	0.1
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5			8.02	0.5	4.75	7.5		45.782		23.1	0.1
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.025	0.025	0.5			8.06	0.5	64.4	7.5		175.819	18		0.28
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5			8.19	0.5	73.3	7.5		201.703		22.6	0.48
North River	North River above Rte. 880 crossing PWMG 43	43	0.025	0.025	0.5			7.95	0.5	81.2	7.5		214.738		19.9	0.42
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5			7.88	0.5	75.4	7.5		214.185		20.2	0.5
North River	North River below Tingley Hill Bridge PWMG 40	40	0.025	0.025	0.5			8.78	0.5	122	7.5		400.507		22.2	0.38
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5			8.14	0.5	47.7	7.5		173.862		22.3	0.32
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5			8.34	0.5	80	7.5		282.206		21.5	0.54
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	0.025	0.025	0.5			8.09	0.5	41.1	7.5		150.512		22.8	0.28
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5			8.24	0.5	72.2	7.5		250.212		22.5	0.4
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5			7.78	0.5	4.47	7.5		35.519		22.5	0.1
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.025	0.025	0.5			7.37	0.5	2.33	7.5		16.837		18.8	0.1
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	0.025	0.025	0.5			7.7	0.5	4.47	7.5		28.743		18.6	0.1
Fox Creek	Fox Creek at route 108 PWMG 31	31	0.89	0.89	0.5			7.75	0.5	11.4	24		175.88		18.7	0.5
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.05	0.05	0.5			7.73	0.5	5.51	7.5		233.413		18.7	0.65
Jones Lake	Jones Lake PWMG 22	22	0.025	0.025	0.5			7.78	0.5	12.5	50		186.187		20.4	0.62
Memramcook	Memramcook River @ Calhoun PWMG 35	35	0.025	0.025	0.5			7.7	0.5	3.75	7.5		70.145		20.2	0.27
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.08	0.08	0.5			7.38	0.5	5.51	18		109.512		20.2	0.52
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.72	0.73	1.27			7.81	0.5	9.04	80		159.914		19.9	0.7
Weldon Creek	Weldon Creek D/S from Salem PWMG 32 (en dupl)	32	0.025	0.025	0.5			8.22	0.5	55.5	7.5		136.889		19.7	0.1
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1.23	1.28	0.5			7.83	0.5	24	27		257.856		17.4	0.53
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		0.05	0.05	0.5			8.13	0.5	14.7	7.5		288.33	13		0.29
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		0.31	0.31	0.5			8.1	0.5	26.5	7.5		131.639	9		0.1
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		0.31	0.31	0.5			8.13	0.5	26.6	7.5		135.211	9		0.1
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		0.3	0.3	0.5			8.01	0.5	26.8	7.5		201.027	10		0.33
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		0.22	0.22	0.5			7.87	0.5	19.2	7.5		204.873	12.5		0.25
Jonathan Creek	Jonathan Creek 3 near exit ramp		0.19	0.19	0.5			7.85	0.5	18	7.5		244.988	11		0.24

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	NO3 (mg/L)	NOX (mg/L)	Pb (µg/L)	PH (pH)	Client-fld Lamolli	PH Lab (pH)	Sb (µg/L)	SO4 (mg/L)	SS (mg/L)	C-MPN average f (MPN/100ml)	TDS (mg/L)	TEMP (Celsius)	Client-fldTEMP (Celsius)	Field-ELCTKN (mg/L as H)
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		0.12	0.12	0.5			8.2	0.5	17	7.5		233.187		11	0.2
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		0.1	0.1	0.5			8.11	0.5	14.9	7.5		209.743		11.5	0.35
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		0.17	0.17	0.5			8.07	0.5	5.98	7.5		287.812		12	0.37
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWGM 23)	23	0.08	0.08	0.5			8.19	0.5	15	7.5		243.514		13	0.25
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		0.06	0.06	0.5			8.12	0.5	16.4	7.5		270.355		13	0.25
Jonathan Creek	Jonathan Creek 9 - behind McLaughlin School		0.06	0.06	0.5			8.23	0.5	14	7.5		268.736		13	0.21
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5		6.75	7	0.5	4.66	7.5		82.171		14.8	0.32
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	0.025	0.025	0.5		6	6.53	0.5	2.9	7.5		52.461		14.2	0.57
Bennett Brook	Bennett Brook PWMG 6	6	0.05	0.05	1.55		7.75	7.65	0.5	266	7.5		1425.272		13.9	0.24
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.27	0.28	0.5		7.25	7.9	0.5	13.2	60		222.376		14.8	0.4
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.025	0.025	0.5		7.75	7.87	0.5	4.26	7.5		177.287		14.3	0.47
Jones Lake	Jones Lake PWMG 22	22	0.1	0.11	1.49		5.25	8.02	0.5	14.9	70		215.983		15.7	0.41
Little River	Little River below Prosser Brook PWMG 41	41	0.025	0.025	0.5		6.75	7.1	0.5	4.18	7.5		39.362		13.1	0.1
Little River	Little River near mouth PWMG 17	17	0.025	0.025	0.5		7.5	7.67	0.5	5.68	7.5		377.618		10	0.74
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35	0.025	0.025	0.5		6.75	7.21	0.5	6.32	7.5		51.6185		15	0.555
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5		6.75	7.44	0.5	5.59	7.5		120.303		15	0.38
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.06	0.05	0.5		7.5	7.53	0.5	81.4	7.5		214.106		11.4	0.22
North River	North River Above Rte 885 Bridge PWMG 5	5	0.025	0.025	0.5		7.75	7.97	0.5	118	7.5		309.31		14.8	0.43
North River	North River above Rte. 880 crossing PWMG 43	43	0.025	0.025	0.5		7	7.85	0.5	139	7.5		364.383		13.7	0.36
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5		7.25	7.73	0.5	130	7.5		360.221		14.8	0.42
North River	North River below Tingley Hill Bridge PWMG 40	40	0.025	0.025	0.5		7.75	7.62	0.5	177	7.5		577.661		14.7	0.36
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5		7.5	7.89	0.5	53.4	7.5		203.767		14.9	0.38
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	0.025	0.025	0.5		7.75	7.56	0.5	123	7.5		426.88		15	0.39
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16 (en dupl)	16	0.025	0.025	0.5		7.5	7.76	0.5	42.65	7.5		174.55		10	0.31
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5		7.5	7.41	0.5	90	7.5		324.111		14.9	0.38
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5		7	7.15	0.5	5.2	7.5		35.917		14.4	0.1
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.025	0.025	0.5		6.75	6.59	0.5	2.78	7.5		17.08		13.5	0.1
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	0.025	0.025	0.5		7.75	6.79	0.5	4.9	7.5		29.724		13	0.4
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.91	0.92	1.48		7.5	7.5	0.5	8.63	100		103.301		15	0.62
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5		7.75	7.96	0.5	64.6	7.5		155.054		13.3	0.1
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	1.82	1.83	1.4		7.75	7.88	0.5	24.1	140		188.487		14.2	0.37
Anagance River	Anagance River Above Mouth PWMG 2	2	0.025	0.025	0.5		6.75	7.38	0.5	4.54	7.5		46.387		6.7	0.36
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1 (en dupl)	1	0.025	0.025	0.5		5.75	7.14	0.5	3.62	7.5		35.967		6.6	0.525
Bennett Brook	Bennett Brook PWMG 6	6	0.2	0.2	0.5		7.75	8.03	0.5	115	7.5		454.628		6.8	0.56
Fox Creek	Fox Creek at route 106 PWMG 31	31	0.37	0.37	1.47		6.5	7.17	0.5	7.25	90		80.961		6.8	0.82
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	0.23	0.23	1.9		6.75	7.58	0.5	10.2	110		84.857		7.1	0.94
Jones Lake	Jones Lake PWMG 22	22	0.28	0.28	3.43		7.25	7.93	0.5	12.4	30		129.655		8	0.69
Little River	Little River below Prosser Brook PWMG 41	41	0.1	0.1	0.5		6.75	7.53	0.5	3.29	15		29.19		6.2	0.36
Little River	Little River near mouth PWMG 17	17	0.13	0.13	0.5		6.7	7.62	0.5	3.98	7.5		39.123		6.4	0.5
Memramcook	Memramcook River @ Calhoun PWMG 35	35	0.11	0.11	0.5			8.32	0.5	5.43	20		38.825		7	0.82
Mill Creek	Mill Creek below reservoir PWMG 20	20	0.025	0.025	0.5		6	6.26	0.5	4.93	30		34.244		5	0.72
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	0.26	0.26	0.5		7.25	7.48	0.5	15.9	50		68.375		6.1	0.85
North River	North River Above Rte 885 Bridge PWMG 5	5	0.11	0.11	0.5		7.75	7.88	0.5	51.9	7.5		189.043		7.1	0.75
North River	North River above Rte. 880 crossing PWMG 43	43	0.09	0.09	0.5		6.8	7.75	0.5	62.2	7.5		183.639		6.3	0.56
North River	North River below bridge on Morton Rd PWMG 7	7	0.025	0.025	0.5		6.8	7.75	0.5	78.6	7.5		230.052		6.9	0.45
North River	North River below Tingley Hill Bridge PWMG 40	40	0.15	0.15	0.5		7.75	8.02	0.5	84.4	7.5		277.208		6.8	0.66
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	0.025	0.025	0.5		7	7.7	0.5	27.6	7.5		115.541		6.3	0.33
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4 (en dupl)	4	0.0475	0.0475	0.5		7.25	7.92	0.5	69.65	7.5		244.219		6.5	0.52
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	0.06	0.06	0.5		7	7.61	0.5	17.5	7.5		76.057		6.3	0.37
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	0.025	0.025	0.5		7.8	7.79	0.5	51.2	7.5		196.385		6	0.48
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	0.025	0.025	0.5		7.8	7.41	0.5	3.53	7.5		28.319		6	0.27
Pollett River	Pollett River @ Church's Corner PWMG 14	14	0.05	0.05	0.5		6.75	7.1	0.5	2.81	7.5		15.3		5.9	0.23
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	0.07	0.07	0.5		6.75	7.62	0.5	3.37	7.5		25.976		6.1	0.25
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	0.62	0.62	2.57		7	7.74	0.5	7.27	150		97.578		8	0.6
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	0.025	0.025	0.5		6.75	7.52	0.5	6.9	7.5		36.347		6.9	0.29
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	0.57	0.57	1.86		7.25	7.64	0.5	12.4	100		110.297		7.9	0.82

Appendix 2. Water quality data from the Petiscodiac watershed, 1975-1999

Water body	Station	Station PWMQ #	TOC (mg/L)	PO4 (mg/L PO4)	TURB (NTU)	Zn (µg/L)
Pollett River	Pollett River @ Stn 1				0.02	
Pollett River	Pollett River @ Stn 2				0.02	
Coverdale River	Coverdale River @ Stn 1				0.107	
Coverdale River	Coverdale River @ Stn 2				0.058	
Coverdale River	Coverdale River @ Stn 3				0.02	
Coverdale River	Coverdale River @ Stn 4				0.02	
Coverdale River	Coverdale River @ Stn 5				0.02	
Turtle Creek	Turtle Creek @ Stn 1				0.15	
Turtle Creek	Turtle Creek @ Stn 2				0.02	
Turtle Creek	Turtle Creek @ Stn 3				0.031	
Petitcodiac River	Petitcodiac River @ Stn 2				0.057	
Petitcodiac River	Petitcodiac River @ Stn 4				0.063	
Petitcodiac River	Petitcodiac River @ Stn 5				0.054	
Petitcodiac River	Petitcodiac River @ Stn 7				0.046	
Turtle Creek	Turtle Creek @ Stn 1				0.069	
Turtle Creek	Turtle Creek @ Stn 2				0.037	
Turtle Creek	Turtle Creek @ Stn 3				0.048	
Halls Brook	Halls Brook @ Stn 1				1.38	
Halls Brook	Halls Brook @ Stn 2				0.811	
Halls Brook	Halls Brook @ Stn 3				0.341	
Halls Brook	Halls Brook @ Stn 4				0.185	
Halls Brook	Halls Brook @ Stn 5				0.154	
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake				0.21	
Jonathan Creek	Jonathan Creek Past Berry Mills				0.327	
Petitcodiac River	Petitcodiac River @ Stn 1				9.44	
Petitcodiac River	Petitcodiac River @ Stn 1a				12.8	
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake				0.063	
Jonathan Creek	Jonathan Creek Past Berry Mills				0.67	
Halls Brook	Halls Brook @ Stn 2				2.83	
Halls Brook	Halls Brook @ Stn 3				0.202	
Halls Brook	Halls Brook @ Stn 4				0.184	
Halls Brook	Halls Brook @ Stn 5				0.048	
Halls Brook	Halls Brook @ Stn 1				2.6	
Coverdale River	Coverdale River @ Stn 1				0.02	
Halls Brook	Halls Brook @ Stn 2				0.854	
Halls Brook	Halls Brook @ Stn 4				0.02	
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake				0.02	
Jonathan Creek	Jonathan Creek Past Berry Mills				0.056	
Petitcodiac River	Petitcodiac River @ Stn 7				0.02	
Pollett River	Pollett River @ Stn 1				0.02	
Halls Brook	Halls Brook @ Stn 2				0.85	
Halls Brook	Halls Brook @ Stn 5				0.395	
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake				0.43	
Jonathan Creek	Jonathan Creek Past Berry Mills				0.54	
Coverdale River	Coverdale River @ Stn 1				0.04	
Petitcodiac River	Petitcodiac River @ Stn 1				0.85	
Petitcodiac River	Petitcodiac River @ Stn 7				0.13	
Pollett River	Pollett River @ Stn 1				0.045	
Jonathan Creek	Jonathan Creek Past Berry Mills				0.16	
Coverdale River	Coverdale River @ Stn 1				0.03	
Halls Brook	Halls Brook @ Stn 2				0.11	
Halls Brook	Halls Brook @ Stn 4				0.11	
Petitcodiac River	Petitcodiac River @ Stn 1				1.25	
Petitcodiac River	Petitcodiac River @ Stn 7				0.02	
Pollett River	Pollett River @ Stn 1				0.15	
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake					3.3
Jonathan Creek	Jonathan Creek Above Stormsewer A					4.8
Jonathan Creek	Jonathan Creek Above Stormsewer B					4.4
Jonathan Creek	Jonathan Creek Below Park Culverts					5.2
Jonathan Creek	Jonathan Creek Below Park Culverts					5
Jonathan Creek	Jonathan Creek Below Stormsewer					6.2
Jonathan Creek	Jonathan Creek Past Berry Mills					14
Jonathan Creek	Jonathan Creek Past Berry Mills					8.8
Rabbit Brook	Rabbit Brook @ Stn 1					2.1
Rabbit Brook	Rabbit Brook @ Stn 2					2.1
Rabbit Brook	Rabbit Brook @ Stn 3					3.1
Rabbit Brook	Rabbit Brook @ Stn 4					4.1
Coverdale River	Coverdale River @ Stn 1				0.1	
Halls Brook	Halls Brook @ Stn 4				0.81	
Petitcodiac River	Petitcodiac River @ Stn 7				0.15	
Petitcodiac River	Petitcodiac River @ Stn 7				0.12	
Turtle Creek	Turtle Creek @ Stn 2				0.06	
Halls Brook	Halls Brook @ Stn 2				0.27	
Halls Brook	Halls Brook @ Stn 4				0.11	
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake				0.1	
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch				0.09	
Jonathan Creek	Jonathan Creek Past Berry Mills				0.54	
Petitcodiac River	Petitcodiac River @ Stn 1				2.5	

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	TOC (mg/L)	PO4 (mg/L)	TURB (NTU)	Zn (µg/L)
Halls Brook	Halls Brook @ Stn 4				0.8	
Coverdale River	Coverdale River @ Stn 1				0.04	
Halls Brook	Halls Brook @ Stn 2				0.56	
Petitcodiac River	Petitcodiac River @ Stn 7				0.02	
Pollett River	Pollett River @ Stn 1				0.04	
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake				0.13	
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch				0.07	
Jonathan Creek	Jonathan Creek Past Berry Mills				0.11	
Coverdale River	Coverdale River @ Stn 1				0.06	
Halls Brook	Halls Brook @ Stn 2				1.1	
Halls Brook	Halls Brook @ Stn 4				0.35	
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake				0.07	
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch				0.06	
Jonathan Creek	Jonathan Creek Past Berry Mills				0.24	
Petitcodiac River	Petitcodiac River @ Stn 7				0.06	
Pollett River	Pollett River @ Stn 1				0.08	
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake				0.04	
Coverdale River	Coverdale River @ Stn 1				0.02	
Halls Brook	Halls Brook @ Stn 2				2.8	
Halls Brook	Halls Brook @ Stn 4				0.14	
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch				0.02	
Jonathan Creek	Jonathan Creek Past Berry Mills				0.3	
Petitcodiac River	Petitcodiac River @ Stn 7				0.02	
Pollett River	Pollett River @ Stn 1				0.02	
Coverdale River	Coverdale River @ Stn 1				0.08	40
Halls Brook	Halls Brook @ Stn 2				1.8	120
Halls Brook	Halls Brook @ Stn 4				0.31	80
Jonathan Creek	Jonathan Creek @ Head Of Jones Lake				0.1	80
Jonathan Creek	Jonathan Creek @ Junct Of Rte 128 & Tch				0.38	50
Jonathan Creek	Jonathan Creek Past Berry Mills				0.12	40
Petitcodiac River	Petitcodiac River @ Stn 1a				0.09	50
Petitcodiac River	Petitcodiac River @ Stn 7				0.12	40
Pollett River	Pollett River @ Stn 1				0.27	40
Anagance River	Anagance River Above Mouth PWMG 2	2	5.2	0.008	1.8	5
Anagance River	Anagance River Above Rte 695 Bridge PWMG 1	1	7.7	0.017	2.2	5
Bennett Brook	Bennett Brook PWMG 6	6	4	0.014	0.7	5
Little River	Little River near mouth PWMG 17	17	2.3	0.0025	0.7	14
North River	North River Above Rte 885 Bridge PWMG 5	5	11.2	0.011	0.9	5
North River	North River below bridge on Morton Rd PWMG 7	7	12.1	0.013	1.2	13
North River	North River Below Rte 112 Bridge PWMG 8	8	11	0.011	1.2	5
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	5.7	0.007	0.9	14
Petitcodiac River	Petitcodiac River Above Rte 605 Bridge PWMG 3	3	7	0.009	1.4	5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	7.5	0.012	1.4	5
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	4.7	0.006	0.7	5
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	7.5	0.011	1.2	5
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	2.2	0.0025	0.5	5
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1.1	0.0025	0.3	5
Fox Creek	Fox Creek at route 106 PWMG 31	31	14.2	0.062	2.5	28
Humphreys Brook	Humphreys Brook @ Stn 1	1	13.6	0.43	50.4	50
Jonathan Creek	Jonathan Creek Below Wheeler Blvd		8.9	0.013	1.9	19
Jones Lake	Jones Lake PWMG 22	22	9.1	0.59	172	50
Turtle Creek	Turtle Creek @ Bypass Channel		3.2	0.008	1	11
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1.9	0.0025	0.3	5
West Branch Halls Cree	West Branch Halls Creek @ Meadowdale Rd		5.9	0.021	7	5
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	5.2	0.013	2.1	5
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	14.7	0.019	1.8	12
Mill Creek	Mill Creek below reservoir PWMG 20	20	14.1	0.008	2.5	5
North Branch Halls Cree	North Branch Halls Creek PWMG 28	28	4.1	0.008	1	5
North River	North River @ Pacific Junct Rd Bridge PWMG 9	9	8.3	0.008	1.2	5
Petitcodiac River	Petitcodiac River @ Causeway Flatway PWMG 21	21	4.4	0.012	3.9	5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	2.7	0.0025	0	5
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	2.8	0.0025	0	5
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	2	0.0025	0.2	5
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	4.6	0.033	3.7	61
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	6.9	0.071	7.6	13
Anagance River	Anagance River Above Mouth PWMG 2	2	8.9	0.026	2.4	14
Anagance River	Anagance River Above Rte 695 Bridge PWMG 1	1	11	0.038	2.9	25
Bennett Brook	Bennett Brook PWMG 6	6	3.4	0.017	0.6	5
Fox Creek	Fox Creek at route 106 PWMG 31	31	16	0.096	5.5	5
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	11.3	0.039	9.8	10
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	16.5	0.03	1.9	5
Mill Creek	Mill Creek below reservoir PWMG 20	20	19.5	0.013	2.5	5
North Branch Halls Cree	North Branch Halls Creek PWMG 28	28	4.6	0.007	1.8	28
North River	North River @ bridge (Fawcett-Wheaton Sett) PWMG 7	7	14.9	0.021	1.3	17
North River	North River @ Pacific Junct Rd Bridge PWMG 9	9	6.9	0.007	0.7	5
North River	North River Above Rte 885 Bridge PWMG 5	5	12.3	0.008	0.6	5
North River	North River Below Rte 112 Bridge PWMG 8	8	11.3	0.013	1.8	5
Petitcodiac River	Petitcodiac River @ Causeway Flatway PWMG 21	21	17.9	0.038	7.9	5

Appendix 2. Water quality data from the Petiscodiac watershed, 1975-1999

Water body	Station	Station PWMG #	TOC (mg/L)	PO4 (mg/L PO4)	TURB (NTU)	Zn (µg/L)
Petiscodiac River	Petiscodiac River Above Rte 905 Bridge PWMG 3	3	8.5	0.011	1.7	18
Petiscodiac River	Petiscodiac River at TCH Bridge PWMG 4	4	8.7	0.017	1.3	6
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	3.1	0.025	2.1	23
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	4.3	0.06	5	16
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	2.6	0.0025	0.1	5
Jonathan Creek	Jonathan Creek Below Horsman Road PWMG 23 (en dupl)	23	7.95	0.026	2	6
Jones Lake	Jones Lake PWMG 22	22	13.8	0.043	6.1	18
Little River	Little River near mouth PWMG 17	17	2.4	0.0025	0.3	5
Petiscodiac River	Petiscodiac River Above French Brook PWMG 15	15	6.9	0.007	0.8	12
Petiscodiac River	Petiscodiac River Below Rte 112 Bridge PWMG 16	16	5.7	0.006	0.6	11
Petiscodiac River	Petiscodiac River near mouth of Pollett R PWMG 10	10	8.3	0.01	1	5
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	2.6	0.0025	0.2	5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	2.5	0.0025	0.1	5
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	2.7	0.0025	0.1	5
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	2.3	0.0025	0.2	6
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1.6	0.0025	0	5
Turtle Creek	Turtle Creek @ Bypass Channel	32	3.2	0.0025	0.7	5
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	4.1	0.015	3.6	13
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	4.6	0.02	3	12
Anagance River	Anagance River Above Mouth PWMG 2	2	4.6	0.014	1.5	5
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	6.6	0.027	1.9	5
Bennett Brook	Bennett Brook PWMG 6	6	3	0.017	0.4	5
Little River	Little River near mouth PWMG 17	17	2.6	0.007	0.3	5
Mill Creek	Mill Creek below reservoir PWMG 20	20	14.9	0.012	3.7	5
North River	North River @ bridge (Fawcett-Wheaton Selt) PWMG 7	7	7.4	0.005	0.5	5
North River	North River Above Rte 885 Bridge PWMG 5	5	5.9	0.0025	0.2	5
Petiscodiac River	Petiscodiac River Above French Brook PWMG 15	15	3.4	0.0025	0.2	5
Petiscodiac River	Petiscodiac River Above Rte 905 Bridge PWMG 3	3	4.8	0.0025	0.7	5
Petiscodiac River	Petiscodiac River at TCH Bridge PWMG 4	4	4.8	0.012	0.7	5
Petiscodiac River	Petiscodiac River Below Rte 112 Bridge PWMG 16	16	3.2	0.0025	0.2	5
Petiscodiac River	Petiscodiac River near mouth of Pollett R PWMG 10	10	4.3	0.0025	0.2	12
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1.7	0.0025	0.2	5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1.6	0.0025	0	5
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	1.8	0.0025	0.1	5
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	1.2	0.0025	0	5
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1.1	0.0025	0	11
Turtle Creek	Turtle Creek @ Bypass Channel	44	4.4	0.006	2.4	5
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	2	0.0025	0.1	5
Fox Creek	Fox Creek at route 105 PWMG 31	31	8	0.028	4.8	5
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	9.8	0.03	3.6	11
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	13.5	0.011	1.1	5
Jonathan Creek	Jonathan Creek Below Horsman Road PWMG 23	23	6	0.036	1.7	67
Jones Lake	Jones Lake PWMG 22	22	9.6	0.075	6.1	12
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	4.4	0.0025	2.2	5
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	3.8	0.005	0.5	5
North River	North River Below Rte 112 Bridge PWMG 8	8	5.6	0.008	0.8	5
Petiscodiac River	Petiscodiac River @ Causeway Fishway PWMG 21	21	8.3	0.028	3.2	5
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	3.4	0.039	2.2	18
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	8.3	0.091	7.7	29
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	2.7	0.012	1.5	12
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	3.9	0.021	3.6	5
Memramcook	Memramcook River @ Calhoun PWMG 35	35	9.7	0.008	2.9	5
Memramcook	Memramcook River @ College Bridge PWMG 36	36	7.8	0.17	80.1	13
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	9.8	0.0025	0.8	11
North River	North River below bridge on Morton Rd PWMG 7	7	16.7	0.01	2.5	5
North River	North River Below Rte 112 Bridge PWMG 8	8	16.4	0.008	1.5	14
Anagance River	Anagance River Above Mouth PWMG 2	2	7.9	0.011	2	23
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1 (en trip)	1	10.7000	0.0180	1.3333	21.0000
Bennett Brook	Bennett Brook PWMG 6	6	3.9	0.009	0.5	5
Fox Creek	Fox Creek at route 105 PWMG 31	31	6.8	0.084	11.1	57
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	10.8	0.008	0.8	5
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	9.6	0.043	6.1	27
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	10.8	0.017	3.4	27
Jones Lake	Jones Lake PWMG 22	22	9	0.071	13.2	32
Little River	Little River near mouth PWMG 17	17	2.4	0.0025	0.4	5
Memramcook	Memramcook River @ Calhoun PWMG 35	35	22.2	0.01	0.8	908
Memramcook	Memramcook River @ College Bridge PWMG 36	36	9.3	0.62	7.7	5
Mill Creek	Mill Creek below reservoir PWMG 20	20	9.7	0.008	5.3	5
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	4.3	0.0025	1.7	5
North River	North River Above Rte 885 Bridge PWMG 5	5	14.8	0.0025	0.6	27
Petiscodiac River	Petiscodiac River @ Causeway Fishway PWMG 21	21	4.8	0.011	4.2	5
Petiscodiac River	Petiscodiac River Above French Brook PWMG 15	15	11.1	0.0025	0.8	5
Petiscodiac River	Petiscodiac River Below Rte 112 Bridge PWMG 16	16	9.2	0.0025	0.8	5
Petiscodiac River	Petiscodiac River near mouth of Pollett R PWMG 10 (en trip)	10	11.9	0.00833333	0.83333333	42
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1.5	0.0025	0.2	5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1.7	0.0025	0	5
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	1.7	0.0025	0.2	27

Appendix 2. Water quality data from the Petiscodiac watershed, 1975-1999

Water body	Station	Station PWMG #	TOC (mg/L)	PO4 (mg/L PO4)	TURB (NTU)	Zn (µg/L)
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	1.2	0.0025	0	5
Prosser Brook	Prosser Brook near mouth PWMG 18	18	1	0.0025	0	11
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	8.2	0.038	1.4	14
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	7.7	0.064	2.4	13
Turtle Creek	Turtle Creek @ Bypass Channel (en trip)		5.06666667	0.022666667	5.76666667	26.33333333
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1.9	0.0025	1.5	11
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	8.4	0.016	4.4	17
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	8.4	0.031	9.4	30
Petiscodiac River	Petiscodiac River Above Rte 805 Bridge PWMG 3	3	12.1	0.008	0.8	5
Petiscodiac River	Petiscodiac River at TCH Bridge PWMG 4	4	11.2	0.015	1	5
Anagance River	Anagance River Above Mouth PWMG 2	2	6.1	0.005	2	25
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	7.3	0.012	1.8	5
Bennett Brook	Bennett Brook PWMG 6	6	2.5	0.0025	2	5
Fox Creek	Fox Creek at route 106 PWMG 31	31	6.7	0.054	7.5	33
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	10	0.0025	0.6	5
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	7.2	0.038	7.9	5
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	7.4	0.015	1.6	5
Jones Lake	Jones Lake PWMG 22	22	9.4	0.28	85.5	23
Little River	Little River near mouth PWMG 17	17	1.5	0.0025	0.4	5
Mill Creek	Mill Creek below reservoir PWMG 20	20	12.9	0.006	4.2	5
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	4.1	0.0025	1.1	5
North River	North River @ Pacific Junc Rd Bridge PWMG 9 (en trip)	9	3.86666667	0.0025	0.6	5
North River	North River Above Rte 885 Bridge PWMG 5	5	6.8	0.0025	0.7	5
North River	North River below bridge on Morton Rd PWMG 7	7	7.9	0.0025	0.6	5
North River	North River Below Rte 112 Bridge PWMG 8	8	6.3	0.0025	0.6	5
Petiscodiac River	Petiscodiac River @ Causeway Highway PWMG 21	21	6.4	0.01	2.2	5
Petiscodiac River	Petiscodiac River Above French Brook PWMG 15	15	4.3	0.0025	0.6	5
Petiscodiac River	Petiscodiac River Above Rte 805 Bridge PWMG 3	3	5.9	0.017	1.2	5
Petiscodiac River	Petiscodiac River at TCH Bridge PWMG 4	4	5.6	0.023	1	5
Petiscodiac River	Petiscodiac River Below Rte 112 Bridge PWMG 16	16	4.1	0.0025	0.6	5
Petiscodiac River	Petiscodiac River near mouth of Pollitt R PWMG 10	10	5.5	0.0025	0.7	5
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	1.4	0.0025	0.3	5
Pollitt River	Pollitt River @ Church's Corner PWMG 14 (en trip)	14	1.433333333	0.0025	0.133333333	5
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	1.4	0.0025	0.2	5
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	0.5	0.0025	0.2	5
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.5	0.0025	0.1	5
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25 (en trip)	25	2.8	0.021666667	1.5	9
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	3.7	0.067	7.8	5
Turtle Creek	Turtle Creek @ Bypass Channel		2.5	0.009	2.8	5
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1.2	0.0025	0.1	5
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	3.1	0.006	1.6	5
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	3.7	0.014	3.2	5
Anagance River	Anagance River Above Mouth PWMG 2	2	7.5	0.022	1.7	5
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	9.8	0.027	1.6	19
Bennett Brook	Bennett Brook PWMG 6	6	13.7	0.048	3.2	5
Little River	Little River near mouth PWMG 17	17	3.1	0.008	0.5	5
Mill Creek	Mill Creek below reservoir PWMG 20	20	14.9	0.011	1.1	5
North River	North River Above Rte 885 Bridge PWMG 5	5	12.2	0.029	2.4	32
North River	North River below bridge on Morton Rd PWMG 7	7	9.2	0.014	0.7	35
Petiscodiac River	Petiscodiac River Above French Brook PWMG 15	15	6.3	0.012	1.4	5
Petiscodiac River	Petiscodiac River Above Rte 805 Bridge PWMG 3	3	11.4	0.053	4.1	5
Petiscodiac River	Petiscodiac River at TCH Bridge PWMG 4	4	10.3	0.046	3.6	10
Petiscodiac River	Petiscodiac River Below Rte 112 Bridge PWMG 16	16	5.6	0.009	1.2	5
Petiscodiac River	Petiscodiac River near mouth of Pollitt R PWMG 10	10	7.2	0.014	2.4	5
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	4.9	0.008	0.3	5
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	10.7	0.007	0.2	5
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	10	0.007	0.3	22
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	8.3	0.009	0.4	5
Prosser Brook	Prosser Brook near mouth PWMG 18	18	2.6	0.005	0.3	5
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	3.1	0.005	1.1	5
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	5.4	0.006	1.2	5
Fox Creek	Fox Creek at route 106 PWMG 31	31	16	0.075	8.5	5
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	15.9	0.038	3.5	5
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	18.5	0.027	0.8	5
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	13.9	0.017	1.5	5
Jones Lake	Jones Lake PWMG 22	22	10.7	0.065	4.8	5
North Branch Halls Creek	North Branch Halls Creek PWMG 28	28	5.3	0.009	1.5	5
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	17.2	0.011	0.7	5
North River	North River Below Rte 112 Bridge PWMG 8	8	19.8	0.017	1.2	5
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	5.5	0.053	2.5	10
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	6.4	0.077	2.6	11
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	5.2	0.018	3.7	11
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	5.7	0.03	5.8	14
Petiscodiac River	Petiscodiac River @ Stn 4					
Anagance River	Anagance River Above Mouth PWMG 2	2	4.4	0.014	1.5	5
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	8.9	0.032	1.7	5
Bennett Brook	Bennett Brook PWMG 6	6	3.5	0.012	0.6	5
North River	North River Above Rte 885 Bridge PWMG 5	5	5.8	0.0025	0	5

Water body	Station	Station PWMG #	TOC (mg/L)	PO4 (mg/L PO4)	TURB (NTU)	Zn (µg/L)
North River	North River below bridge on Morton Rd PWMG 7	7	7.8	0.008	0.5	5
North River	North River Below Rte 112 Bridge PWMG 8	8	5.2	0.01	0.5	5
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	4.8	0.005	0.5	5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	5.2	0.015	0.5	5
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	1.8	0.0025	0	5
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	1.8	0.0025	0	5
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	0.5	0.0025	0	5
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.5	0.012	0	5
Fox Creek	Fox Creek at route 106 PWMG 31	31	5.8	0.09	48.8	17
Jonathan Creek	Jonathan Creek 7 - Below Horaman Road (PWMG 23)	23	8.2	0.054	10.1	10
Little River	Little River near mouth PWMG 17	17	2	0.006	0.7	5
Mill Creek	Mill Creek below reservoir PWMG 20	20	15.1	0.018	2.4	5
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	5.8	0.014	3.5	5
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	2.4	0.0025	0.4	5
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	2.6	0.0025	0.4	5
Petitcodiac River	Petitcodiac River near mouth of Pollitt R PWMG 10	10	4.7	0.005	0.9	5
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	1.2	0.0025	0.4	5
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	2.2	0.0025	0.5	5
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	9.7	0.080	34.9	57
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	11.1	0.018	1.8	5
Jones Lake	Jones Lake PWMG 22	22	9.4	0.09	7.7	16
North Branch Halls Cree	North Branch Halls Creek PWMG 28	28	4.1	0.008	2	5
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	5.5	0.048	5.1	13
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	6.2	0.07	8	13
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	3.3	0.008	2.2	5
West Branch Halls Cree	West Branch Halls Creek @ Briardale St PWMG 27	27	3.6	0.02	5.2	10
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	5.8	0.048	11.4	11
Petitcodiac River	Petitcodiac River @ Sin 4					
Anagance River	Anagance River Above Mouth PWMG 2 (en trip)	2	4.8	0.010333333	2.26666667	10.6666667
Bennett Brook	Bennett Brook PWMG 6	6	3.4	0.01	0.5	71
Fox Creek	Fox Creek at route 106 PWMG 31	31	20.8	0.04	8.7	28
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	10.5	0.014	2.8	10
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	10.4	0.032	4.4	77
Jonathan Creek	Jonathan Creek 7 - Below Horaman Road (PWMG 23) (en	23	8.23333333	0.01066667	1.4	6.6666667
Jones Lake	Jones Lake PWMG 22	22	7.1	0.045	4.4	12
Little River	Little River near mouth PWMG 17	17	1.5	0.0025	0.2	21
Memramcook	Memramcook River @ Calhoun PWMG 35	35	31	0.015	1	5
Mill Creek	Mill Creek below reservoir PWMG 20	20	11.8	0.012	3.3	5
North Branch Halls Cree	North Branch Halls Creek PWMG 28	28	4.2	0.005	1.5	25
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	7.7	0.005	0.5	12
North River	North River Above Rte 885 Bridge PWMG 5	5	6.3	0.0025	0	5
North River	North River below bridge on Morton Rd PWMG 7	7	6.9	0.007	0.3	13
North River	North River Below Rte 112 Bridge PWMG 8	8	6.7	0.006	0.6	11
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	3.3	0.0025	0.1	5
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	5.5	0.0025	0.8	25
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	5.8	0.02	0.8	5
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	3.3	0.0025	0.2	5
Petitcodiac River	Petitcodiac River near mouth of Pollitt R PWMG 10	10	5.3	0.0025	0.3	65
Pollitt River	Pollitt River 1km Above Mouth PWMG 11	11	1.4	0.0025	0	5
Pollitt River	Pollitt River @ Church's Corner PWMG 14	14	2.4	0.0025	0	5
Pollitt River	Pollitt River @ Mapleton Bridge PWMG 13	13	2.2	0.0025	0	5
Pollitt River	Pollitt River east of Pollitt R Settlement PWMG 12	12	1.5	0.0025	0	5
Prosser Brook	Prosser Brook near mouth PWMG 18	18	0.5	0.0025	0	5
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	5.1	0.048	11.4	14
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	7.1	0.055	8.4	77
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	4	0.03	3.9	20
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1.7	0.0025	0.1	5
West Branch Halls Cree	West Branch Halls Creek @ Briardale St PWMG 27	27	4	0.019	2.8	10
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	4.5	0.018	4.4	15
Anagance River	Anagance River Above Mouth PWMG 2	2	11.8	0.013	5	5
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	14.8	0.014	0.9	5
Bennett Brook	Bennett Brook PWMG 6	6	12.2	0.017	2.1	5
Fox Creek	Fox Creek at route 106 PWMG 31	31	19.7	0.06	20.3	12
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	14.5	0.039	13	5
Humphreys Brook	Humphreys Brook @ TCH PWMG 30	30	17	0.013	1.9	5
Jonathan Creek	Jonathan Creek 7 - Below Horaman Road (PWMG 23)	23	12.8	0.021	5.8	5
Jones Lake	Jones Lake PWMG 22	22	9.4	0.059	13	28
Little River	Little River near mouth PWMG 17 (en trip)	17	3.13333333	0.0055	0.43333333	5
Memramcook	Memramcook River @ Calhoun PWMG 35	35	25.4	0.02	2.5	5
Mill Creek	Mill Creek below reservoir PWMG 20	20	22.5	0.018	7.2	5
North Branch Halls Cree	North Branch Halls Creek PWMG 28	28	4.9	0.014	2.9	5
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	10.2	0.008	0.8	5
North River	North River Above Rte 885 Bridge PWMG 5	5	12.8	0.012	1.5	5
North River	North River below bridge on Morton Rd PWMG 7 (en trip)	7	12.43333333	0.009	0.76666667	5
North River	North River Below Rte 112 Bridge PWMG 8	8	13.9	0.01	1	5
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	7.8	0.013	2.8	5
Petitcodiac River	Petitcodiac River Above Rte 905 Bridge PWMG 3	3	11.4	0.014	3.8	5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	11.5	0.03	4	15

Appendix 2. Water quality data from the Petlitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	TOC (mg/L)	PO4 (mg/L PO4)	TURB (NTU)	Zn (µg/L)
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	6.6	0.01	2.5	5
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	9.8	0.018	8.1	6
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	7.3	0.018	3.1	6
Pollett River	Pollett River @ Church's Corner PWMG 14	14	3.9	0.0025	0.4	5
Pollett River	Pollett River @ Mapleton Bridge PWMG 13	13	4	0.0025	0.6	5
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	10.1	0.028	2.7	5
Prosser Brook	Prosser Brook near mouth PWMG 16	16	1.7	0.0025	1.3	5
Rabbit Brook	Rabbit Brook @ Mapleton Rd PWMG 25	25	10.6	0.07	20.5	14
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	5.4	0.076	52.2	13
Turtle Creek	Turtle Creek @ Bypass channel by pumphouse PWMG 19	19	4.6	0.013	2.4	5
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	9.5	0.02	4.8	5
West Branch Halls Creek	West Branch Halls Creek @ Briardale St PWMG 27	27	7.7	0.031	9.5	22
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26 (en t	26	6.2	0.046	27	5
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		4.13	0.062	4.9	10
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		1.88	0.008	0.5	2.5
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		4.42	0.006	0.3	2.5
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		4.6	0.005	1.7	25
Jonathan Creek	Jonathan Creek 3 near exit ramp		4.56	0.0025	1	7
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		4.72	0.0025	0.6	2.5
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		4.46	0.0025	0.6	2.5
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		6.97	0.015	1.5	7.2
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	4.75	0.0025	0.6	8.5
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		4.44	0.019	9.8	11
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		4.2	0.058	1.7	10
Anagance River	Anagance River Above Mouth PWMG 2	2	4.06	0.016	2	2.5
Anagance River	Anagance River Above Rte 695 Bridge PWMG 1	1	7.5	0.034	3	2.5
Bennett Brook	Bennett Brook near mouth PWMG 45	45	3.14	0.017	0.6	2.5
Little River	Little River below Prosser Brook PWMG 41	41	0.5	0.0025	0.2	2.5
Little River	Little River near mouth PWMG 17	17	1.93	0.011	0.5	2.5
North River	North River Above Rte 685 Bridge PWMG 5	5	5.49	0.0025	0.2	16
North River	North River above Rte. 680 crossing PWMG 43	43	5.48	0.012	0.9	2.5
North River	North River below bridge on Morton Rd PWMG 7	7	8.96	0.013	1	2.5
North River	North River below Tingley Hill Bridge PWMG 40	40	4.12	0.0025	0.3	2.5
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	2.61	0.0025	0.3	2.5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	4.4	0.024	1.2	2.5
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	2.6	0.0025	0.3	2.5
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	4.21	0.008	0.6	2.5
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1.76	0.005	0.3	2.5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1.84	0.0025	0.1	2.5
Fox Creek	Fox Creek at route 106 PWMG 31	31	8.65	0.031	4.5	7.4
Halls Creek	Halls Creek near mouth PWMG 44	44	7.67	0.037	8.2	2.5
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	8.45	0.034	3.5	10
Memramcook	Memramcook River @ Calhoun PWMG 35	35	9.04	0.013	0.7	6.5
Mill Creek	Mill Creek below reservoir PWMG 20	20	12.6	0.01	1.6	37
North River	North River @ Pacific Junct Rd Bridge PWMG 9	9	3.12	0.013	0.5	6
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1.91	0.021	0.4	7
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		6.79	0.061	23.6	13
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		2.84	0.022	0.1	2.5
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		5.49	0.028	1	2.5
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		5.21	0.019	2	11
Jonathan Creek	Jonathan Creek 3 near exit ramp		5.69	0.019	2	9
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		6.48	0.022	11.2	45
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		6.95	0.021	12.4	9.5
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		6.4	0.08	36.4	11
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	6.63	0.025	17.2	9
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		6.64	0.032	21.2	13
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		6.63	0.048	19.9	11
Anagance River	Anagance River Above Rte 695 Bridge PWMG 1	1	10.7	0.036	2.6	2.5
Bennett Brook	Bennett Brook near mouth PWMG 45	45	3.53	0.021	0.7	2.5
Fox Creek	Fox Creek at route 106 PWMG 31	31	7.19	0.036	10.3	6
Halls Creek	Halls Creek near mouth PWMG 44	44	4.81	0.035	10.2	2.5
North River	North River @ Pacific Junct Rd Bridge PWMG 9	9	4.65	0.01	0.8	2.5
North River	North River Above Rte 685 Bridge PWMG 5	5	5.5	0.014	0.5	2.5
North River	North River below bridge on Morton Rd PWMG 7	7	5.92	0.01	0.6	2.5
Jones Lake	Jones Lake PWMG 22	22	8.28	0.074	5.3	2.5
Memramcook	Memramcook River @ Calhoun PWMG 35	35	7.08	0.014	0.6	2.5
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	3.32	0.005	0.5	2.5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	5.29	0.036	1.2	2.5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1.86	0.005	0.2	2.5
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		16.3	0.036	21.8	8.2
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		9.55	0.018	2	53
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		12.1	0.04	3.5	2.5
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		14.9	0.023	2.8	49
Jonathan Creek	Jonathan Creek 3 near exit ramp		14.4	0.028	7.3	23
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		16.1	0.025	10.5	6
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		16.1	0.023	11.6	22
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		18	0.048	21	2.5
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	16.4	0.031	12.5	14

Appendix 2. Water quality data from the Petritcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	TOC (mg/L)	PO4 (mg/L PO4)	TURB (NTU)	Zn (µg/L)
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		16.2	0.036	19.5	8.9
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		16.1	0.037	19.4	8.6
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	7.78	0.15	10.4	12
Fox Creek	Fox Creek at route 106 PWMG 31	31	19.3	0.093	45.8	12.5
Jones Lake	Jones Lake PWMG 22	22	11.2	0.035	3.7	7
Little River	Little River below Prosser Brook PWMG 41	41	1.14	0.008	0	2.5
Little River	Little River near mouth PWMG 17	17	2.68	0.007	0.5	9.5
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35	22.3	0.0095	0.6	2.5
North River	North River @ Pacific Jund Rd Bridge PWMG 9	9	4.58	0.007	0.6	2.5
North River	North River Above Rte 885 Bridge PWMG 5	5	11.8	0.005	0.2	2.5
North River	North River above Rte. 880 crossing PWMG 43	43	11.7	0.009	0.3	2.5
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	7.59	0.008	0.6	2.5
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	6.52	0.008	0.5	2.5
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	8.49	0.12	9.2	13
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1.39	0.008	0.1	2.5
Anagance River	Anagance River Above Mouth PWMG 2	2	10.9	0.025	2.1	2.5
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	17.6	0.059	2.7	2.5
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	11.1	0.042	3.7	2.5
Mill Creek	Mill Creek below reservoir PWMG 20	20	17.6	0.019	3.6	2.5
North River	North River below bridge on Morton Rd PWMG 7	7	14.6	0.011	0.3	2.5
North River	North River below Tingley Hill Bridge PWMG 40	40	7.9	0.005	0.1	2.5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	9.88	0.028	1.1	2.5
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	9.34	0.01	0.5	2.5
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	1.6	0.008	0.1	2.5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	1.99	0.008	0	2.5
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		8.24	0.053	11.2	8.7
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		3.64	0.012	0	2.5
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		8.36	0.016	0.6	11
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		7.49	0.014	2.1	13
Jonathan Creek	Jonathan Creek 3 near exit ramp		7.75	0.01	1.9	8.5
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		8.72	0.079	4.2	5.1
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		8.59	0.011	4.1	8.3
Jonathan Creek	Jonathan Creek 6 - Tributary to J.C near Ryan St		11.7	0.049	13	9.4
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	9.19	0.016	6.1	25
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		8.92	0.022	10.2	7.3
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		8.71	0.037	9.7	6.7
Anagance River	Anagance River Above Mouth PWMG 2	2	10.5	0.044	22.7	7.1
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	11.9	0.018	1.2	2.5
Bennett Brook	Bennett Brook PWMG 6	6	18.5	0.12	26.8	6.7
North River	North River Above Rte 885 Bridge PWMG 5	5	14.9	0.16	46	10
North River	North River below bridge on Morton Rd PWMG 7	7	12.7	0.046	6.2	2.5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	7.1	0.075	25.2	6.3
Anagance River	Anagance River Above Mouth PWMG 2	2	9.48	0.011	1.6	2.5
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	12.6	0.013	1	2.5
Bennett Brook	Bennett Brook PWMG 6	6	6.12	0.026	1.3	2.5
Fox Creek	Fox Creek at route 106 PWMG 31	31	27.6	0.053	2.1	5.2
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	23.8	0.036	2.6	2.5
Jones Lake	Jones Lake PWMG 22	22	18	0.038	16.7	31
Little River	Little River below Prosser Brook PWMG 41	41	2.67	0.007	0.4	2.5
Little River	Little River near mouth PWMG 17	17	3.22	0.008	0.7	2.5
Memramcook	Memramcook River @ Calhoun PWMG 35	35	31.7	0.007	0.6	6.5
North River	North River Above Rte 885 Bridge PWMG 5	5	18.9	0.02	1	2.5
North River	North River below bridge on Morton Rd PWMG 7	7	22.2	0.022	1	2.5
North River	North River below Tingley Hill Bridge PWMG 40	40	14.8	0.022	1.1	2.5
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	9.53	0.016	1.2	2.5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	12.1	0.016	1.3	2.5
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	8.34	0.015	1.1	2.5
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	12.5	0.016	1.8	2.5
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	3.77	0.007	0.6	2.5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	4.41	0.005	0.1	2.5
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	6.18	0.032	2.2	6.8
Mill Creek	Mill Creek below reservoir PWMG 20	20	21.4	0.008	5.3	2.5
North River	North River @ Pacific Jund Rd Bridge PWMG 9	9	11.5	0.009	0.7	2.5
North River	North River above Rte. 880 crossing PWMG 43	43	17.1	0.022	1.6	2.5
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	3.98	0.007	0.4	2.5
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26 (en d	26	6.105	0.019	3.5	2.5
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		12.9	0.012	2.9	16
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		9.48	0.005	0.3	2.5
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		8.99	0.01	2	2.5
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		12.9	0.008	1.6	7.7
Jonathan Creek	Jonathan Creek 3 near exit ramp		12.3	0.006	1	2.5
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		14.5	0.007	1.2	6.5
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		14.6	0.007	1.3	2.5
Jonathan Creek	Jonathan Creek 6 - Tributary to J.C near Ryan St		14.6	0.012	2.8	30
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	14.6	0.008	1.8	18
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		13.5	0.006	2.5	13
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		14	0.011	2.8	15
Anagance River	Anagance River Above Mouth PWMG 2	2	7.07	0.01	1.2	2.5

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	TOC (mg/L)	PO4 (mg/L PO4)	TURB (NTU)	Zn (µg/L)
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	9.88	0.01	0.5	2.5
Bennett Brook	Bennett Brook PWMG 6	6	6	0.02	1.2	2.5
Mill Creek	Mill Creek below reservoir PWMG 20	20	18.8	0.008	3.7	5.5
North River	North River Above Rte 885 Bridge PWMG 5	5	14.2	0.014	0.8	2.5
North River	North River below bridge on Morton Rd PWMG 7	7	14.8	0.017	0.9	2.5
North River	North River below Tingley Hill Bridge PWMG 40	40	11.1	0.015	1	2.5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	9.7	0.013	1.1	2.5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	3.71	0.005	0.2	2.5
Fox Creek	Fox Creek at route 106 PWMG 31	31	16.3	0.03	4.6	6.7
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	16.3	0.019	1.8	2.5
Jones Lake	Jones Lake PWMG 22	22	11.9	0.03	13.3	19
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35	19.85	0.008	0.6	3.85
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	7.48	0.01	1	2.5
North River	North River above Rte 880 crossing PWMG 43	43	12	0.02	0.9	2.5
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	6.39	0.011	0.9	2.5
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	5.23	0.011	0.7	2.5
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	7.48	0.012	1.5	2.5
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	2.42	0.006	0.4	7.3
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	2.32	0.007	0	2.5
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	5.7	0.038	1.8	11
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	2.61	0.011	0.7	2.5
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	5.24	0.019	2.8	7.8
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	15.2	0.017	2.5	2.5
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		12.4	0.025	5.7	5
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		8.89	0.013	1	2.5
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		10.2	0.026	4	2.5
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		14.3	0.019	2.5	2.5
Jonathan Creek	Jonathan Creek 3 near exit ramp		14	0.017	2.5	2.5
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		13.9	0.017	3.1	2.5
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		14	0.014	2.9	2.5
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		13.3	0.014	3.1	2.5
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		11.3	0.032	9.8	5
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	13.1	0.015	4.4	2.5
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		13	0.016	4.9	2.5
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		12.6	0.018	4.8	2.5
Anagance River	Anagance River Above Mouth PWMG 2	2	5.33	0.011	1.8	2.5
Anagance River	Anagance River Above Rte 885 Bridge PWMG 1	1	8.07	0.02	1.5	22
Bennett Brook	Bennett Brook PWMG 6	6	5.01	0.019	0.8	2.5
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		8.36	0.043	5.3	5
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		5.3	0.008	0	2.5
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		8.34	0.008	0	2.5
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		9.54	0.012	2.4	6.2
Jonathan Creek	Jonathan Creek 3 near exit ramp		9.49	0.008	1.2	5.1
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		9.34	0.005	1.8	6.6
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		9.18	0.0025	0.9	2.5
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		9.67	0.039	4.9	5.2
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	9.22	0.007	1.5	2.5
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		8.61	0.012	2.3	2.5
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		8.33	0.021	2.7	2.5
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		8.18	0.024	2.8	2.5
Little River	Little River below Prosser Brook PWMG 41	41	1.54	0.0025	0	2.5
Little River	Little River near mouth PWMG 17	17	2.5	0.008	0.3	2.5
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	10.2	0.008	0.7	2.5
North River	North River Above Rte 885 Bridge PWMG 5	5	14.9	0.009	0.4	2.5
North River	North River above Rte 880 crossing PWMG 43	43	15.6	0.012	0.4	2.5
North River	North River below bridge on Morton Rd PWMG 7	7	16.8	0.01	0.3	2.5
North River	North River below Tingley Hill Bridge PWMG 40	40	12.3	0.01	0.3	2.5
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	7.5	0.008	0.2	2.5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	10.7	0.021	0.9	2.5
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	6.82	0.0025	0.1	9
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	10.5	0.007	0.4	2.5
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	2.24	0.0025	0	2.5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	2.56	0.0025	0	2.5
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	1.9	0.0025	0	2.5
Fox Creek	Fox Creek at route 106 PWMG 31	31	7.12	0.058	18.7	5.3
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	10.7	0.025	5.9	2.5
Jones Lake	Jones Lake PWMG 22	22	7.87	0.012	12.1	5.2
Memramcook	Memramcook River @ Calhoun PWMG 35	35	7.47	0.0025	0.2	2.5
Mill Creek	Mill Creek below reservoir PWMG 20	20	10.4	0.005	22.7	2.5
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	6.41	0.067	33.6	9.1
Weldon Creek	Weldon Creek D/S from Salem PWMG 32 (en dupl)	32	1.905	0.0025	0	2.5
West Branch Halls Cree	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	5.28	0.041	13.7	11
Jonathan Creek	Jonathan Creek 10 - before Centennial Pond in park		4.9	0.02	5.3	10
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		2.39	0.01	0.1	6.9
Jonathan Creek	Jonathan Creek 1A - @ Pacific Junction Road		2.81	0.011	0	7.5
Jonathan Creek	Jonathan Creek 1B - @ Rogers Road		5.27	0.01	0.3	2.5
Jonathan Creek	Jonathan Creek 2 - @ Berry Mills Road		4.64	0.011	3.3	15
Jonathan Creek	Jonathan Creek 3 near exit ramp		5.09	0.0025	1.6	11

Appendix 2. Water quality data from the Petitcodiac watershed, 1975-1999

Water body	Station	Station PWMG #	TOC (mg/L)	PO4 (mg/L PO4)	TURB (NTU)	Zn (µg/L)
Jonathan Creek	Jonathan Creek 4 - @ Landfill Road		6	0.0025	0.8	8.7
Jonathan Creek	Jonathan Creek 5 - D/S from Berry Mills Road		4.85	0.0025	1.1	8.3
Jonathan Creek	Jonathan Creek 6 - Tributary to JC near Ryan St		6.74	0.07	5.6	10
Jonathan Creek	Jonathan Creek 7 - Below Horsman Road (PWMG 23)	23	4.98	0.009	1.3	9.4
Jonathan Creek	Jonathan Creek 8 - at Wheeler Blvd		4.85	0.01	3.3	9.4
Jonathan Creek	Jonathan Creek 9 - behind McNaughton School		5.01	0.017	2.3	11
Anagance River	Anagance River Above Mouth PWMG 2	2	6.66	0.014	2.7	2.5
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1	1	12.8	0.017	1.2	9.8
Bennett Brook	Bennett Brook PWMG 8	8	5.39	0.015	2.7	5.8
Fox Creek	Fox Creek at route 106 PWMG 31	31	8.31	0.038	44.3	9.1
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	10.5	0.025	6.4	2.5
Jones Lake	Jones Lake PWMG 22	22	7.89	0.03	32.3	10
Little River	Little River below Prosser Brook PWMG 41	41	1.41	0.005	0.2	2.5
Little River	Little River near mouth PWMG 17	17	13.6	0.019	0.5	2.5
Memramcook	Memramcook River @ Calhoun PWMG 35 (en dupl)	35	22.4	0.0085	0.55	2.5
Mill Creek	Mill Creek below reservoir PWMG 20	20	10	0.007	7	2.5
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	6.64	0.009	0.9	2.5
North River	North River Above Rte 885 Bridge PWMG 5	5	13.2	0.005	0.5	2.5
North River	North River above Rte. 880 crossing PWMG 43	43	12.4	0.011	0.5	34
North River	North River below bridge on Morton Rd PWMG 7	7	18.2	0.012	0.4	2.5
North River	North River below Tingley Hill Bridge PWMG 40	40	10.4	0.005	0.3	2.5
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	7.07	0.005	0.6	2.5
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4	4	9.43	0.014	1	2.5
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16 (en dupl)	16	6.585	0.0075	0.6	4.9
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	10.1	0.007	0.8	2.5
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	2.85	0.0025	0.3	2.5
Pollett River	Pollett River @ Church's Corner PWMG 14	14	3.05	0.0025	0	2.5
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	2.25	0.0025	0	2.5
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	6.04	0.11	38.4	14
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	1.94	0.0025	0.1	2.5
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	4.11	0.062	85.2	6.9
Anagance River	Anagance River Above Mouth PWMG 2	2	9.67	0.015	6	20
Anagance River	Anagance River Above Rte 895 Bridge PWMG 1 (en dupl)	1	15.9	0.017	1.25	23.5
Bennett Brook	Bennett Brook PWMG 8	8	12.2	0.032	5.7	27
Fox Creek	Fox Creek at route 106 PWMG 31	31	15.5	0.089	37.3	28
Humphreys Brook	Humphreys Brook @ Mill Rd Bridge PWMG 29	29	15	0.081	42.3	21
Jones Lake	Jones Lake PWMG 22	22	11.8	0.049	26.8	39
Little River	Little River below Prosser Brook PWMG 41	41	5.82	0.015	5	42
Little River	Little River near mouth PWMG 17	17	9	0.057	7.3	29
Memramcook	Memramcook River @ Calhoun PWMG 35	35	25.6	0.031	6	38
Mill Creek	Mill Creek below reservoir PWMG 20	20	23.6	0.012	16	16
North River	North River @ Pacific Junc Rd Bridge PWMG 9	9	16.9	0.03	11.7	14
North River	North River Above Rte 885 Bridge PWMG 5	5	15.1	0.04	4.7	2.5
North River	North River above Rte. 880 crossing PWMG 43	43	17	0.036	3.1	51
North River	North River below bridge on Morton Rd PWMG 7	7	14.7	0.02	1.2	7
North River	North River below Tingley Hill Bridge PWMG 40	40	13.2	0.037	5.6	59
Petitcodiac River	Petitcodiac River Above French Brook PWMG 15	15	9.16	0.017	4.3	30
Petitcodiac River	Petitcodiac River at TCH Bridge PWMG 4 (en dupl)	4	11.3	0.0225	7.1	19.5
Petitcodiac River	Petitcodiac River Below Rte 112 Bridge PWMG 16	16	10.4	0.019	3.9	33
Petitcodiac River	Petitcodiac River near mouth of Pollett R PWMG 10	10	12.8	0.021	5.4	39
Pollett River	Pollett River 1km Above Mouth PWMG 11	11	6.44	0.01	10.5	19
Pollett River	Pollett River @ Church's Corner PWMG 14	14	5.61	0.007	0	16
Pollett River	Pollett River east of Pollett R Settlement PWMG 12	12	5.13	0.015	1.2	7.6
Rabbit Brook	Rabbit Brook near Mouth PWMG 24	24	5.71	0.068	84.1	29
Weldon Creek	Weldon Creek D/S from Salem PWMG 32	32	8.72	0.02	11	25
West Branch Halls Creek	West Branch Halls Creek @ Wheeler Blvd PWMG 26	26	11.4	0.065	50	26

APPENDIX 3
List of water quality sampling stations

Station Listing

Station Name: Anagance River Above Mouth PWMG 2
Description: sampled upstream from bridge located just up from mouth . Westmorland Co, Elgin Pa. Follow road through town, turn onto dirt road where DNRE building is located. Drive past DNRE

Site:

Water Body:		Historical ID:	00BR01BU0092
StationID:	1211	UTM Zone:	20
PID:		UTM Northing:	5088079
Station Status:	Active	UTM Easting:	330330
	Latitude: 45.927296		
	Longitude: 65.1875		

Station Name: Anagance River above North River confluence
Description: below bridge just above the confluence with the North River. Riffle. Stn. 2; For fall 1998 benthic study: (1) rubble substrate (2) unshaded (3) water 1-1.5' deep (4) swamp hardwood

Site:

Water Body:	Anagance River; . aka Annagance River	Historical ID:	00BR01BU0166
StationID:	8184	UTM Zone:	20
PID:		UTM Northing:	5088399
Station Status:	Active	UTM Easting:	330400
	Latitude: 45.930191		
	Longitude: 65.186711		

Station Name: Anagance River Above Rte 895 Bridge PWMG 1
Description: upstream from route 895 bridge.,Kings Co, Cardwell Pa

Site:

Water Body:		Historical ID:	00BR01BU0091
StationID:	1210	UTM Zone:	20
PID:		UTM Northing:	5082269
Station Status:	Active	UTM Easting:	324700
	Latitude: 45.87363		
	Longitude: 65.257935		

Station Name: Bennett Brook below old ford site
Description: 30m downstream from old ford site located approx. 2km off Rte. 885. Riffle. Stn. 11; For fall 1998 benthic study: (1) rubble substrate with silt (2) fast-moving, < 1' deep (3) narrow brook, some shade from marsh, alder

Site:

Water Body:		Historical ID:	00BR01BU0174
StationID:	8192	UTM Zone:	20
PID:		UTM Northing:	5092799
Station Status:	Active	UTM Easting:	328350
	Latitude: 45.969255		
	Longitude: 65.214709		

Station Name: Bennett Brook near mouth PWMG 45
Description: Approx 15 m U/ S from the mouth. To access site, take sample from North River at bridge near Intervale. Walk downstream along North River to Bennett. Walk u/s approx 15 - 20 m.

Site:

Water Body:	Bennett Brook	Historical ID:	
StationID:	9848	UTM Zone:	20
PID:		UTM Northing:	5091649
Station Status:	Active	UTM Easting:	329350
	Latitude: 45.959161		
	Longitude: 65.201402		

Station Listing

Station Name: Bennett Brook PWMG 6
Description: Upstream from fording site located approx 2km off rte 885, south side of rd, Westmorland Co, Salisbury Pa
Site:
Water Body:
StationID: 1180
PID:
Station Status: Active
Latitude: 45.966619
Longitude: 65.211377
Historical ID: 00BR01BU0093
UTM Zone: 20
UTM Northing: 5092499
UTM Easting: 328600

Station Name: Fox Creek at route 106 PWMG 31
Description: Upstream from culvert on route 106 south of St. Anselme, Westmorland Co. Moncton Pa. Station 1
Site:
Water Body:
StationID: 976
PID:
Station Status: Active
Latitude: 46.06305
Longitude: 64.705499
Historical ID: 00BR01BU0036
UTM Zone: 20
UTM Northing: 5102249
UTM Easting: 368025

Station Name: Halls Creek near mouth PWMG 44
Description: D/S from confluence of NBR and WBR. Site is on creek near baseball field and across the field from new Law Building. The banks are muddy but the site can be accessed from some boulders on the bank. Pull off Wheeler Blvd and park between the baseball and soccer fields.
Site:
Water Body: Halls Creek; Within City of Moncton. aka Hall Creek
StationID: 9847
PID:
Station Status: Active
Latitude: 46.101362
Longitude: 64.789807
Historical ID:
UTM Zone: 20
UTM Northing: 5106649
UTM Easting: 361600

Station Name: Humphreys Brook @ Mill Rd Bridge PWMG 29
Description: located below spillway under bridge on mill rd below humphreys mills pond., Westmorland Co, Moncton Pa; For fall 1998 benthic study: (1) substrate mixed large and small rocks (2) lots of debris in brook, including bike frame (3) water about 1' deep, brown, fast moving (4) sewage smell
Site:
Water Body:
StationID: 888
PID:
Station Status: Active
Latitude: 46.109351
Longitude: 64.768068
Historical ID: 00BR01BU0120
UTM Zone: 20
UTM Northing: 5107499
UTM Easting: 363300

Station Name: Humphreys Brook @ Stn 1
Description: U/s from lewisville rd, behind metro stn 1997, Westmorland Co. Moncton Pa. Station 1
Site:
Water Body:
StationID: 887
PID:
Station Status: Inactive
Latitude: 46.101
Longitude: 64.772
Historical ID: 00BR01BU0034
UTM Zone: 20
UTM Northing: 5106578
UTM Easting: 362975

Station Listing

Station Name: Humphreys Brook @ TCH PWMG 30
Description: approx 100m u/s from culvert at TCH xing, Westmorland Co. Moncton Pa. Station 2. Walk past standpipe located beside river.

Site:

Water Body:		Historical ID:	00BR01BU0035
StationID:	886	UTM Zone:	20
PID:		UTM Northing:	5109379
Station Status:	Active	UTM Easting:	365200
		Latitude:	46.126641
		Longitude:	64.744028

Station Name: Jonathan Creek 7 - Below Horsman Road (PWMG 23)
Description: approx 15m d/s from culvert under Horsman Road., Westmorland Co, Moncton

Site:

Water Body:		Historical ID:	00BR01BU0118
StationID:	863	UTM Zone:	20
PID:		UTM Northing:	5106849
Station Status:	Active	UTM Easting:	356100
		Latitude:	46.102024
		Longitude:	64.860988

Station Name: Jonathan Creek 20m above Horsman Road culvert
Description: 20m above culvert under Horsman Road. Riffle. Stn. 10; For fall 1998 benthic study: (1) substrate gravelly with rock outcrops (2) water murky, deep (3) partly shaded

Site:

Water Body:	Jonathan Creek	Historical ID:	00BR01BU0173
StationID:	8191	UTM Zone:	20
PID:		UTM Northing:	5106849
Station Status:	Active	UTM Easting:	356000
		Latitude:	46.102003
		Longitude:	64.862281

Station Name: Jonathan Creek Below Wheeler Blvd
Description: approx 100m downstream from culvert passing under wheeler blvd., Westmorland Co.

Site:

Water Body:		Historical ID:	00BR01BU0096
StationID:	860	UTM Zone:	20
PID:		UTM Northing:	5105799
Station Status:	Inactive	UTM Easting:	358050
		Latitude:	46.092987
		Longitude:	64.835459

Station Name: Jones Lake PWMG 22
Description: sample taken at culvert outlet across Main Street from Jones Lake., Westmorland Co, Moncton Pa

Site:

Water Body:		Historical ID:	00BR01BU0097
StationID:	858	UTM Zone:	20
PID:		UTM Northing:	5104549
Station Status:	Active	UTM Easting:	361300
		Latitude:	46.08241
		Longitude:	64.793074

Station Listing

Station Name: Little River below Mitton Brook confluence
Description: 200m downstream of confluence of Mitton Brook (below bridge over Little River). Riffle. Stn. 9; For fall 1998 benthic study: (1) substrate ? (2) water fast moving, 1.5-2' deep, murkier and warmer than Prosser (3) shoreline dense alder and willow

Site:

Water Body:	Little River; Flows NW. into Petitcodiac River. aka Coverdale	Historical ID:	00BR01BU0172
StationID:	8190	UTM Zone:	20
PID:		UTM Northing:	5080899
Station Status:	Active	UTM Easting:	345100
	Latitude: 45.8662		
	Longitude: 64.994814		

Station Name: Little River below Prosser Brook PWMG 41
Description: Turn left (north) on 895 after crossing bridge in Parkindale. Turn on road leading to cemetery. Park beside cemetery and follow dirt road to camp with trailer. Sample site is located approx. 25 m D/S from dock in front of camp. Cobble/boulder bottom.

Site:

Water Body:		Historical ID:	00BR01BU0178
StationID:	9846	UTM Zone:	20
PID:		UTM Northing:	5081249
Station Status:	Active	UTM Easting:	346100
	Latitude: 45.869572		
	Longitude: 64.98205		

Station Name: Little River near mouth PWMG 17
Description: upstream from route 112 bridge, just west of five points.,Albert Co, Coverdale Pa; For fall 1998 benthic study: (1) substrate small stones (2) marsh/hay shore, unshaded

Site:

Water Body:		Historical ID:	00BR01BU0098
StationID:	784	UTM Zone:	20
PID:		UTM Northing:	5097999
Station Status:	Active	UTM Easting:	343400
	Latitude: 46.019628		
	Longitude: 65.02229		

Station Name: Memramcook River @ Calhoun PWMG 35
Description: Memramcook river @ calhoun ,Westmorland Co, Dorchester Pa

Site:

Water Body:		Historical ID:	NB01BU0008
StationID:	702	UTM Zone:	20
PID:		UTM Northing:	5102475
Station Status:	Active	UTM Easting:	378359
	Latitude: 46.067		
	Longitude: 64.572		

Station Name: Memramcook River @ College Bridge PWMG 36
Description: Memramcook river @ college bridge ,Westmorland Co, Dorchester Pa

Site:

Water Body:		Historical ID:	00BR01BU0121
StationID:	701	UTM Zone:	
PID:		UTM Northing:	
Station Status:	Inactive	UTM Easting:	
	Latitude:		
	Longitude:		

Station Listing

Station Name: Mill Creek below Pine Glen highway
Description: 30m below Pine Glen highway. Riffle. Stn. 14; For fall 1998 benthic study: (1) substrate large rocks at riffle (2) deep pools of water either side of culvert under road (3) water very turbid, possible rain the previous night (4) willow, alder, swamp shoreline

Site:

Water Body:		Historical ID:	00BR01BU0177
StationID:	8195	UTM Zone:	20
PID:		UTM Northing:	5100099
Station Status:	Active	UTM Easting:	361750
	Latitude:	46.042469	
	Longitude:	64.785964	

Station Name: Mill Creek below reservoir PWMG 20
Description: 70-100m below spillway of reservoir at an old crossing (no bridge structure), Westmorland Co, Coverdale Pa

Site:

Water Body:		Historical ID:	00BR01BU0099
StationID:	694	UTM Zone:	20
PID:		UTM Northing:	5101999
Station Status:	Active	UTM Easting:	363950
	Latitude:	46.060003	
	Longitude:	64.758088	

Station Name: North Branch Halls Creek PWMG 28
Description: approx 50m upstream from culvert under TCH.

Site:

Water Body:		Historical ID:	00BR01BU0100
StationID:	565	UTM Zone:	20
PID:		UTM Northing:	5109619
Station Status:	Active	UTM Easting:	360420
	Latitude:	46.127839	
	Longitude:	64.805939	

Station Name: North River @ Pacific Junct Rd Bridge PWMG 9
Description: Approx 75m u/s from bridge on Pacific Junct Rd, u/s from garbage thrown on river banks, Westmorland Co, Moncton Pa; Follow path under bridge upstream.

Site:

Water Body:		Historical ID:	00BR01BU0103
StationID:	548	UTM Zone:	20
PID:		UTM Northing:	5103149
Station Status:	Active	UTM Easting:	338125
	Latitude:	46.064722	
	Longitude:	65.092141	

Station Name: North River Above Rte 885 Bridge PWMG 5
Description: 30-40m u/s of rte 885 bridge, just west of Intervale; request owner's permission, Westmorland Co, Salisbury Pa

Site:

Water Body:		Historical ID:	00BR01BU0101
StationID:	546	UTM Zone:	20
PID:		UTM Northing:	5091949
Station Status:	Active	UTM Easting:	329550
	Latitude:	45.961909	
	Longitude:	65.19893	

Station Listing

Station Name: North River above Rte. 880 crossing PWMG 43
Description: 200m upstream from Rte. 880 crossing. Riffle. Stn. 4; For fall 1998 benthic study: (1) rocky substrate with some silt and algae on rocks (2) about 1' deep (3) partial shade from alder, mixed-wood banks
Site:
Water Body: North River
StationID: 8186
PID:
Station Status: Active
Latitude: 46.04889
Longitude: 65.120949
Historical ID: 00BR01BU0168
UTM Zone: 20
UTM Northing: 5101449
UTM Easting: 335850

Station Name: North River below bridge on Morton Rd PWMG 7
Description: Bridge over North R on Morton Road between Fawcett & Wheaton Settlements. Sample D/S from bridge.
Site:
Water Body:
StationID: 547
PID:
Station Status: Active
Latitude: 46.018922
Longitude: 65.182846
Historical ID: 00BR01BU0013
UTM Zone: 20
UTM Northing: 5098249
UTM Easting: 330970

Station Name: North River Below Rte 112 Bridge PWMG 8
Description: Downstream from route 112 bridge approx 5 to 10 m (upstream side too muddy), Westmorland Co, Salisbury Pa
Site:
Water Body:
StationID: 545
PID:
Station Status: Active
Latitude: 46.064701
Longitude: 65.092786
Historical ID: 00BR01BU0102
UTM Zone: 20
UTM Northing: 5103148
UTM Easting: 338075

Station Name: North River below Tingley Hill Bridge PWMG 40
Description: 50m downstream from Tingley Hill bridge. Riffle. Stn. 3; For fall 1998 benthic study: (1) mixed substrate, mostly rubble-sized, some much larger (2) unshaded (3) < 1' deep, water clear
Site:
Water Body: North River
StationID: 8185
PID:
Station Status: Active
Latitude: 45.939911
Longitude: 65.196124
Historical ID: 00BR01BU0167
UTM Zone: 20
UTM Northing: 5089499
UTM Easting: 329700

Station Name: Petitcodiac River @ Causeway Fishway PWMG 21
Description: >From causeway, new lane, adjacent to fishway from headpond (sample iron used), Albert Co, Coverdale
Site:
Water Body:
StationID: 469
PID:
Station Status: Inactive
Latitude:
Longitude:
Historical ID: 00BR01BU0117
UTM Zone:
UTM Northing:
UTM Easting:

Station Listing

Station Name: Petitcodiac River 30m below covered bridge
Description: 30m downstream from covered bridge. Turn right on road (approx. 1km after TCH) off Hwy. 6. Run. Stn. 12; For fall 1998 benthic study: (1) substrate large rocks with abundant algal growth (2) slow water, samplers in "run", all others in "riffles"

Site:

Water Body:	Petitcodiac River; Flows S. into Shepody Bay. aka Petcoudiac	Historical ID:	00BR01BU0175
StationID:	8193	UTM Zone:	20
PID:		UTM Northing:	5095999
Station Status:	Active	UTM Easting:	338150
	Latitude: 46.000418		
	Longitude: 65.089391		

Station Name: Petitcodiac River 50m above Rte. 112 bridge
Description: 50m above Rte. 112 bridge. Riffle. Stn. 13; For fall 1998 benthic study: (1) substrate rocks smaller than those in sampler (2) water < 1' deep (3) marsh shoreline; unshaded

Site:

Water Body:	Petitcodiac River; Flows S. into Shepody Bay. aka Petcoudiac	Historical ID:	00BR01BU0176
StationID:	8194	UTM Zone:	20
PID:		UTM Northing:	5098199
Station Status:	Active	UTM Easting:	342450
	Latitude: 46.021209		
	Longitude: 65.034621		

Station Name: Petitcodiac River Above French Brook PWMG 15
Description: U/s from mouth of french brook on rte 106 (by mail box # 3447, river on east side), Westmorland Co, Salisbury Pa; Approx 1km

Site:

Water Body:		Historical ID:	00BR01BU0106
StationID:	461	UTM Zone:	20
PID:		UTM Northing:	5097199
Station Status:	Active	UTM Easting:	339770
	Latitude: 46.011592		
	Longitude: 65.068886		

Station Name: Petitcodiac River Above Rte 905 Bridge PWMG 3
Description: Sampled approx 50 m upstream from bridge on rte 905 in town of Petitcodiac, Westmorland Co.

Site:

Water Body:		Historical ID:	00BR01BU0104
StationID:	460	UTM Zone:	20
PID:		UTM Northing:	5088699
Station Status:	Active	UTM Easting:	331160
	Latitude: 45.933077		
	Longitude: 65.177022		

Station Name: Petitcodiac River at TCH Bridge PWMG 4
Description: east of Petitcodiac at TCH bridge. 1997 - sample adjacent to wsc gauge stn upstream from tributary, Westmorland Co, Sals Pa, Petitcodiac

Site:

Water Body:		Historical ID:	NB01BU0003
StationID:	470	UTM Zone:	20
PID:		UTM Northing:	5090199
Station Status:	Active	UTM Easting:	331950
	Latitude: 45.946761		
	Longitude: 65.167365		

Station Listing

Station Name: Petitcodiac River Below Rte 112 Bridge PWMG 16
Description: 100m downstream from bridge on route 112 ,Westmorland Co, Salisbury Pa
Site:
Water Body:
StationID: 459
PID:
Station Status: Active
Latitude: 46.022581
Longitude: 65.03338
Historical ID: 00BR01BU0107
UTM Zone: 20
UTM Northing: 5098349
UTM Easting: 342550

Station Name: Petitcodiac River near mouth of Pollett R PWMG 10
Description: U/s from mouth of Pollett. Cross covered bridge on Powers Pit rd. Sample u/s from bridge,Westmorland Co., Sals Pa; Stn 3,
Site:
Water Body:
StationID: 465
PID:
Station Status: Active
Latitude: 45.996875
Longitude: 65.091195
Historical ID: 00BR01BU0010
UTM Zone: 20
UTM Northing: 5095609
UTM Easting: 338000

Station Name: Pollett River @ Church's Corner PWMG 14
Description: At bridge west of Church's Corner(cc) 1997 - approx 30m u/s of bridge,Albert Co., Elgin Pa. Station 4. / For benthic study: 30m upstream from bridge at Church's Corner. Riffle. Stn. 5; (1) substrate mixed with several large rocks above water surface (2) marsh and mixed forest on banks (3) < 1' deep, very clear
Site:
Water Body: Pollett River; . aka Pollet River
StationID: 442
PID:
Station Status: Active
Latitude: 45.756879
Longitude: 65.078347
Historical ID: 00BR01BU0018
UTM Zone: 20
UTM Northing: 5068919
UTM Easting: 338300

Station Name: Pollett River @ Mapleton Bridge PWMG 13
Description: approx 30m u/s from bridge on Mapleton Road., Elgin Pa. Station 3.
Site:
Water Body:
StationID: 443
PID:
Station Status: Active
Latitude: 45.812
Longitude: 65.105882
Historical ID: 00BR01BU0017
UTM Zone: 20
UTM Northing: 5075099
UTM Easting: 336320

Station Name: Pollett River 1km Above Mouth PWMG 11
Description: approx 1km u/s from mouth. Adjacent to stn BU0010 on Petitcodiac,Westmorland Co, Salisbury Pa. Continue down Powers Pitt Road after covered bridge, approx 100metres. Follow clearing to river; For fall 1998 benthic study: (1) substrate small rocks similar size and colour to sampler rocks (2) shallow, very clear (3) mixed-wood
Site:
Water Body:
StationID: 441
PID:
Station Status: Active
Latitude: 45.995904
Longitude: 65.090189
Historical ID: 00BR01BU0109
UTM Zone: 20
UTM Northing: 5095499
UTM Easting: 338075

Station Listing

Station Name: Pollett River 30m above Church's Corner bridge
Description: 30m upstream from bridge at Church's Corner. Riffle. Stn. 5; For fall 1998 benthic study: (1) substrate mixed with several large rocks above water surface (2) marsh and mixed forest on banks (3) < 1' deep, very clear

Site:

Water Body:	Pollett River; . aka Pollet River	Historical ID:	00BR01BU0169
StationID:	8187	UTM Zone:	20
PID:		UTM Northing:	5068899
Station Status:	Active	UTM Easting:	338300
	Latitude: 45.756699		
	Longitude: 65.07834		

Station Name: Pollett River east of Pollett R Settlement PWMG 12
Description: Bridge xing on pollett river located just east of pollett river settlement, Westmorland Co, Sals Pa; Sample approx 30 m u/s from bridge.

Site:

Water Body:		Historical ID:	NB01BU0041
StationID:	446	UTM Zone:	20
PID:		UTM Northing:	5083529
Station Status:	Active	UTM Easting:	337450
	Latitude: 45.888092		
	Longitude: 65.094194		

Station Name: Pollett River near Elgin above Gordon Falls
Description: Pollett River near Elgin above Gordon Falls

Site:

Water Body:	Pollett River; . aka Pollet River	Historical ID:	00BR01BU0165
StationID:	8998	UTM Zone:	20
PID:		UTM Northing:	5071999
Station Status:	Active	UTM Easting:	337100
	Latitude: 45.784301		
	Longitude: 65.094804		

Station Name: Prosser Brook above Little River confluence
Description: 30m above the confluence with Little River through woods at bend in ATV trail. Riffle. Stn. 8; For fall 1998 benthic study: (1) substrate rocks about same size as sampler rocks (2) water cold and fast moving (3) samplers in "holes" > 1.5' deep (4) brook mostly shaded with overhanging willow and alder

Site:

Water Body:	Prosser Brook	Historical ID:	00BR01BU0171
StationID:	8189	UTM Zone:	20
PID:		UTM Northing:	5080799
Station Status:	Active	UTM Easting:	345900
	Latitude: 45.86548		
	Longitude: 64.984481		

Station Name: Prosser Brook near mouth PWMG 18
Description: at bridge, on small road leading to house just before mouth, off road from Parkindale to Prosser Brook.

Site:

Water Body:		Historical ID:	00BR01BU0111
StationID:	438	UTM Zone:	20
PID:		UTM Northing:	5080529
Station Status:	Active	UTM Easting:	346150
	Latitude: 45.863107		
	Longitude: 64.981176		

Station Listing

Station Name: Rabbit Brook @ Mapleton Rd PWMG 25
Description: few metres upstream from culvert under Mapleton road.,Westmorland Co, Moncton Pa
Site:

Water Body:		Historical ID:	00BR01BU0116
StationID:	434	UTM Zone:	20
PID:		UTM Northing:	5107989
Station Status:	Active	UTM Easting:	358850
		Latitude:	46.112853
		Longitude:	64.825766

Station Name: Rabbit Brook near Mouth PWMG 24
Description: Near the mouth , approx 10m upstream from culvert under Wheeler blvd.,Westmorland Co, Moncton Pa
Site:

Water Body:		Historical ID:	00BR01BU0105
StationID:	433	UTM Zone:	20
PID:		UTM Northing:	5107799
Station Status:	Active	UTM Easting:	360125
		Latitude:	46.111406
		Longitude:	64.809219

Station Name: Turtle Creek @ Bypass Channel
Description: Below pumphouse where bypass channel enters creek,Albert Co, Coverdale Pa
Site:

Water Body:		Historical ID:	00BR01BU0112
StationID:	104	UTM Zone:	20
PID:		UTM Northing:	5096199
Station Status:	Inactive	UTM Easting:	352900
		Latitude:	46.005542
		Longitude:	64.899078

Station Name: Turtle Creek @ Bypass channel by pumphouse PWMG 19
Description: Station created in 1998. Previous Turtle Creek station could not be accessed for safety reasons. Site manager, Paul Richard must be contacted to unlock the gates. Call 387-8448. Drive down dirt road to pumphouse. Go through gates. Sample channel behind pumphouse.

Site:

Water Body:	Turtle Creek	Historical ID:	
StationID:	8323	UTM Zone:	20
PID:		UTM Northing:	5096024
Station Status:	Inactive	UTM Easting:	353370
		Latitude:	46.004069
		Longitude:	64.892957

Station Name: Turtle Creek above Rte. 910 bridge PWMG 42
Description: 30m upstream from Rte. 910 bridge crossing. Riffle. Stn. 7; For fall 1998 benthic study: (1) substrate large rocks (2) water knee-deep in places, brown, fast moving

Site:

Water Body:	Turtle Creek	Historical ID:	00BR01BU0170
StationID:	8188	UTM Zone:	20
PID:		UTM Northing:	5090999
Station Status:	Active	UTM Easting:	354400
		Latitude:	45.959085
		Longitude:	64.878132

Station Listing

Station Name: Weldon Creek D/S from Salem PWMG 32
Description: sampled u/s from covered bridge near Salem settlement.,Albert Co, Hillsborough Pa; For fall 1998 benthic study: (1) substrate rocks larger than in sampler at riffle (2) water clear and fast moving (3) steep banks,

Site:

Water Body:		Historical ID:	00BR01BU0113
StationID:	61	UTM Zone:	20
PID:		UTM Northing:	5085999
Station Status:	Active	UTM Easting:	368075
		Latitude:	45.916868
		Longitude:	64.700367

Station Name: West Branch Halls Creek @ Briardale St PWMG 27
Description: between Briardale and TCH .Access from Briardale st, Park on east end of street and follow (nature ?) path located adjacent to houses to river. Westmorland Co, Moncton

Site:

Water Body:		Historical ID:	00BR01BU0119
StationID:	60	UTM Zone:	20
PID:		UTM Northing:	5109669
Station Status:	Active	UTM Easting:	356870
		Latitude:	46.127553
		Longitude:	64.851881

Station Name: West Branch Halls Creek @ Meadowvale Rd
Description: Near meadowvale road, past new housing area,Westmorland Co, Moncton Pa

Site:

Water Body:		Historical ID:	00BR01BU0115
StationID:	59	UTM Zone:	20
PID:		UTM Northing:	5109349
Station Status:	Inactive	UTM Easting:	357699
		Latitude:	46.124848
		Longitude:	64.841048

Station Name: West Branch Halls Creek @ Wheeler Blvd PWMG 26
Description: d/s from mouth of rabbit brook on east side of wheeler blvd.,Westmorland Co, Moncton

Site:

Water Body:		Historical ID:	00BR01BU0114
StationID:	58	UTM Zone:	20
PID:		UTM Northing:	5107749
Station Status:	Active	UTM Easting:	360400
		Latitude:	46.111013
		Longitude:	64.805648

This is the end of the report