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### Ambient Rivers Monitoring in NH Coastal Watersheds 2004

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### Ambient Rivers Monitoring in New Hampshire Coastal Watersheds 2004

A Final Report to

The New Hampshire Estuaries Project

Submitted by

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### **EXECUTIVE SUMMARY**

The Department of Environmental Services (DES) received funding from the New Hampshire Estuaries Project (NHEP) to conduct monitoring activities in 2004. The activities described in this report were led by the DES Watershed Assistance Section and involved water monitoring in tidal tributaries. These monitoring activities were completed with the overall purpose of improving the understanding of water quality trends. The Department of Environmental Services completed all tasks as planned. This report includes the sample collection information, field data, and laboratory data. Data summaries and interpretations will come at a later time in other DES and NHEP publications.

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#### INTRODUCTION

On February 11, 2004, the New Hampshire Governor and the Executive Council approved a memorandum of agreement (MOA) between the Department of Environmental Services (DES) and the Office of Energy and Planning (OEP) to implement aspects of the New Hampshire Estuaries Project *Management Plan* (NHEP, 2000) and *Monitoring Plan* (Trowbridge, 2002). This report covers the Enhanced Ambient Rivers Monitoring Program aspects in the MOA Work Program.

The NHEP accomplishes its monitoring program by promoting cooperation by all agencies and organizations who participate in monitoring activities, in order to maximize the usefulness of current monitoring efforts (Jones and Langan, 2001). DES directs a state-wide river monitoring program called the Ambient River Monitoring Program (ARMP). The main goal of this program is to determine the physical, chemical and bacteriological quality of rivers in the state. Sampling typically occurs on a rotating basis by watershed during the summer months. The NHEP needed more frequent monitoring to meet the monitoring plan objectives. The NHEP and DES worked out an agreement to use the ARMP protocols, laboratory, and database while increasing the frequency of sampling collection to include monitoring of nine coastal the rivers in the Great Bay Estuary during ice-out conditions.

The purpose of this report is to provide a record of completed river monitoring activities and the associated raw data. All data collected will be provided to the NHEP Coastal Scientist (Phil Trowbridge) for synthesis and interpretation. The NHEP Coastal Scientist will manage the data presented in this Final Report and will make conclusions under separate cover at a later time.

#### PROJECT GOALS AND OBJECTIVES

The overall goal of the NHEP monitoring program is to develop a better understanding of the status and trends of estuarine environmental quality using scientifically credible information. The *Monitoring Plan* was also developed to evaluate the success of the NHEP *Management Plan* objectives and this was accomplished by converting the *Management Plan* objectives into monitoring questions.

The *Monitoring Plan* questions that pertain, at least in part, to the river (tributary) monitoring are as follows:

- 1. Have the fecal coliform, enterococci, and *E. coli* levels changed significantly over time?
- 2. Has dry weather bacterial contamination changed significantly over time?
- 3. Has wet weather bacterial contamination changed significantly over time?
- 4. Have levels of dissolved and particulate nitrogen and phosphorus significantly changed over time?
- 5. Have surface tidal or freshwaters shown a significant change in turbidity over time?

6. Do any surface tidal or freshwaters show less than 75% saturation of dissolved oxygen? For what period of time?

### SITE SELECTION AND METHODS

Initial site selection for ambient tributary monitoring was based six existing DES ARMP sites at the Great Bay Estuary tidal dams on the Exeter, Lamprey, Oyster, Bellamy, Cocheco and Salmon Falls Rivers. Two new sites were established on the freshwater portions of two Little Harbor tributaries, Berry's Brook and Sagamore Creek. These two new site locations were added to broaden the spatial coverage of the ambient monitoring to ensure adequate coverage of tributaries that discharge into shellfish growing waters. An additional Great Bay Estuary site was established on the Winnicut River at the tidal dam in March 2002. This new site was added because the Winnicut River is a significant tributary to Great Bay that was not currently monitored for water quality. The relatively rural watershed has experienced recent and continuing development that could impact the quality of the water flowing into Great Bay; in addition, the tidal dam has been identified as a potential site for fish passage restoration. Site location maps are provided in Appendix A.

Field and laboratory methods were conducted in accordance with the DES ARMP standard procedures as described in the *Ambient River Monitoring Program Quality Assurance Project Plan*. Samples were collected from the freshwater portion of the rivers at the downstream side of road crossings (except at Berry's Brook where the sampling location is on the upstream side) using a sampling bucket and rope. Field measurements were made for dissolved oxygen, temperature, conductivity, pH, and turbidity. River water was poured into sampling containers for laboratory analysis for TKN, ammonia, nitrate/nitrite, total phosphorus, biological oxygen demand, *E. coli*, and chlorophyll-a. Samples were transported to and analyzed by the DES Laboratory Services Unit and the Limnology Laboratory.

The DES Watershed Assistance Staff, with assistance from New Hampshire Coastal Program and NHEP staff, collected samples on a pre-scheduled monthly basis from March through December 2004 at nine sampling locations. Due to the expanded quality assurance requirements of ARMP in 2003 and the delivery time limitations of the Laboratory Services Unit, the sampling was conducted over a two day period. The sites and sampling dates are listed below in tables 1 and 2, respectively.

Table 1 Sampling locations for ambient river monitoring 2004

Site Identification	<u>River</u>	Town
05-Ber	Berry's Brook	Rye
05-Sag	Sagamore Creek	Portsmouth
02-Wnc	Winnicut River	Greenland
09-Ext	Exeter River	Exeter
05-Lmp	Lamprey River	Newmarket
05-Oys	Oyster River	Durham

05-Blm	Bellamy River	Dover
07-Cch	Cocheco River	Dover
05-Sfr	Salmon Falls River	Rollinsford

Table 2 Sampling dates for ambient river monitoring 2004

Date Samp	oled	Sampling Locations
March	n 23	05-Ber, 05-Sag, 02-Wnc, 09-Ext,
March	n 24	05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr
Apri	1 20	05-Ber, 05-Sag, 02-Wnc, 09-Ext,
Apri	1 22	05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr
May	y 18	05-Ber, 05-Sag, 02-Wnc, 09-Ext,
May	y 19	05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr
June	e 15	05-Ber, 05-Sag, 02-Wnc, 09-Ext, 05-Lmp
June	e 16	05-Oys, 05-Blm, 07-Cch, 05-Sfr
July	y 20	05-Ber, 05-Sag, 02-Wnc, 09-Ext, 05-Lmp
July	y 22	05-Oys, 05-Blm, 07-Cch, 05-Sfr
Augus	t 10	05-Blm, 05-Oys, 07-Cch, 05-Sfr
Augus	t 11	05-Ber, 05-Sag, 02-Wnc, 09-Ext, 05-Lmp,
Augus	t 20	05-Oys, 05-Blm, 07-Cch, 05-Sfr (DO&Temp only)
September	r 22	05-Ber, 05-Sag, 02-Wnc, 09-Ext
September	r 23	05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr
September	r 27	05-Ber, 05-Sag, 02-Wnc, 09-Ext (DO&Temp only)
Octobe	r 20	05-Ber, 05-Sag, 02-Wnc,
Octobe	r 21	09-Ext, 05-Lmp 05-Oys, 05-Blm, 07-Cch, 05-Sfr
Novembe	r 17	05-Ber, 05-Sag, 02-Wnc, 09-Ext
Novembe	r 18	05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr
Decemb	er 7	05-Ber, 05-Sag, 02-Wnc
Decemb	er 8	09-Ext, 05-Lmp, 05-Oys, 05-Blm, 07-Cch, 05-Sfr

### FIELD AND LABORATORY DATA

Ambient river data for 2004 are in Appendix B. The data are organized by sampling site and date. Access to the data is available at the DES website, which can be accessed by selecting the environmental monitoring database at <a href="http://www.des.state.nh.us/OneStop/">http://www.des.state.nh.us/OneStop/</a>.

Duplicate measures of field parameters and laboratory analyses were collected once per month at one of the nine sampling locations (see table 3) as required by the Quality Assurance Project Plan (Piszczek, 2002). Data retention for water quality assessment purposes is contingent on compliance with a parameter-specific relative percent difference (RPD) as described in the QAPP and table 4. Several data did not comply with the RPDs. A list of the results that were deemed invalid (both field and laboratory measures) is provided in Appendix C and this is noted in the data tables (Appendix B). This was the second year that duplicate sample analyses of laboratory parameters were measured.

Table 3 Field and laboratory duplicate dates and sampling locations

Date	Sampling location
3/24/04	05-Sfr
4/20/04	09-Ext
5/18/04	02-Wnc
6/16/04	07-Cch
7/22/04	05-Oys
8/10/04	05-Oys
9/22/04	02-Wnc
10/21/04	05-Oys
11/17/04	02-Wnc
12/7/04	05-Ber

Table 4 Field analytical QC sample table.

Water Quality Parameter	QC Check	QC Acceptance Limit
Dissolved Oxygen	Field duplicate	RPD < 5%
Temperature	Field duplicate	RPD < 5%
pН	Field duplicate	RPD < 0.2 std units
Specific Conductance	Field duplicate	RPD < 5%
Turbidity	Field duplicate	RPD < 5%

Certain problems were encountered during the field work that resulted in no changes to the sample collection methods or analytical analyses while other issues did result in changes (table 5). The most frequent change occurred when the field dissolved oxygen meter did not work properly. In these cases, the field staff returned to the sites with a properly working meter within the sampling month and collected the dissolved oxygen data.

Table 5 Field problems encountered during the 2004 field season.

<u>Date</u>	<u>Site</u>	<u>Issue</u>
5/18/04	02-Wnc	Preserved nutrient bottle slightly overfilled.
5/19/04	05-Blm	Preserved nutrient bottle slightly overfilled.
3/19/04	05-Oys	Preserved nutrient bottle slightly overfilled.
6/16/04	07-Cch	Preserved nutrient bottle slightly overfilled.
7/20/04	05-Sag	Preserved nutrient bottle slightly overfilled.
8/10/04	05-Oys	The field dissolved oxygen meter was slow to stabilize on the duplicate sample.  Dissolved oxygen readings taken again on 8/20/04 for all 8/10/04 sampling sites.
9/22/04	All four sites	Dissolved oxygen meter was not working properly. No dissolved oxygen data were collected. Temperature readings were collected with the conductivity meter instead of the dissolved oxygen meter. Preservative was added to the nutrient bottle after sample collection when samples were dropped off at the laboratory instead of prior to sample collection.
9/23/04	05-Sfr	There was no bottle for nitrate+nitrite. Sample water was poured off from TSS sample into nutrient bottle at laboratory.
11/17/04	05-Ber	Error message on conductivity meter. No reading taken.
12/7/04	All sites	Field pH meter did not calibrate. Parameter was measured in the laboratory.

### RECOMMENDATIONS

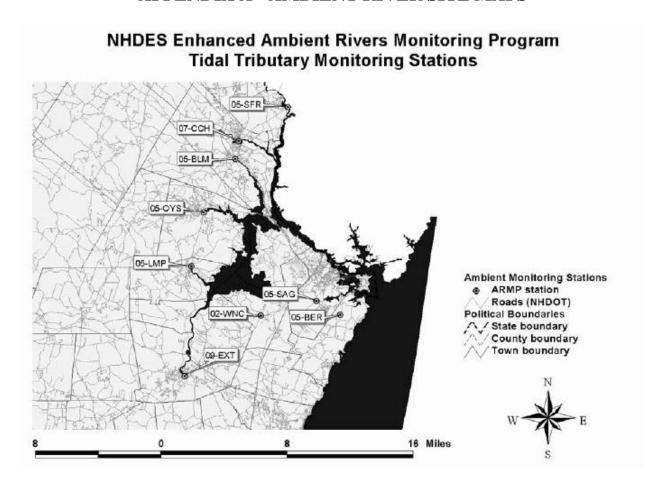
The following recommendations pertain to the ambient monitoring of coastal tributaries.

- 1. Monitoring should continue on a monthly basis at the nine coastal river sites to establish trends in ambient river quality. Baseline conditions and trends will be important in regards to monitoring the success of the NHEP *Management Plan* implementation.
- 2. Steps should be taken to ensure all agencies and organizations that are interested in the data have access to it. DES has added the environmental monitoring data to the OneStop web-based program on the DES website and should promote this database to user groups.

#### REFERENCES

- Jones, S. H. and R. Langan. 2001. *New Hampshire Estuaries Monitoring Plan*. New Hampshire Estuaries Project, Office of State Planning, Portsmouth, NH.
- NHEP. 2000. *New Hampshire Estuaries Project Management Plan*. New Hampshire Estuaries Project, Office of State Planning. Portsmouth, New Hampshire.
- Piszczek, P. 2002. Ambient River Monitoring Program Quality Assurance Project Plan. NH Department of Environmental Services, Water Division-Watershed Management Bureau, Concord, NH.
- Trowbridge, P. 2002. *New Hampshire Estuaries Project Monitoring Plan*. New Hampshire Department of Environmental Services, Concord, NH.

### **APPENDIX A - AMBIENT RIVER SITE MAPS**



### APPENDIX B – AMBIENT RIVER DATA FOR COASTAL TRIBUTARIES

### Berry's Brook at Sagamore Ave, Rye, 05-BER

Note: Data	not meeting R	PD are shaded.

START   TIME   RESULTS   QUAL   UNITS   RESULTS   UNITS   RESULT		START	CTART	BOD	BOD	BOD	CHI	CHI	DO	DO	DO SAT	DOSAT
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ROUTINE SAMPLE         10/20/2004         11:58:00         2.40          MG/L         1.82         UG/L         7.26         MG/L         62:30         %           ROUTINE SAMPLE         11/17/2004         10:04:00         2.40          MG/L         2.89         UG/L         10:92         MG/L         76:90         %           ROUTINE SAMPLE         12/07/2004         09:36:00         2.40          MG/L         1.07         UG/L         12.10         MG/L         82.70         %           FIELD DUPLICATE         12/07/2004         09:35:00         2.40          MG/L         1.26         UG/L         11.54         MG/L         79.10         %           ACTIVITY         START CATEGORY         START TIME         RESULTS         QUAL         UNITS         RESULTS         QUAL         UNITS         RESULTS         UNITS         RESULTS         UNITS         NG/L         0.40         MG/L           ROUTINE SAMPLE         04/20/2004         09:35:00         10         CTS/100ML         0.05         <	ROUTINE SAMPLE	09/22/2004	11:45:00	2.40	<	MG/L	nd	UG/L	nd	MG/L	nd	%
ROUTINE SAMPLE         11/17/2004         10:04:00         2.40          MG/L         2.89         UG/L         10:92         MG/L         76:90         %           ROUTINE SAMPLE         12/07/2004         09:36:00         2.40          MG/L         1.07         UG/L         12:10         MG/L         82:70         %           FIELD DUPLICATE         12/07/2004         09:55:00         2.40          MG/L         1.26         UG/L         11:54         MG/L         79:10         %           ACTIVITY CATEGORY         START DATE         START TIME         RESULTS         QUAL         UNITS         RESULTS         QUAL         UNITS         RESULTS         UNITS           ROUTINE SAMPLE         03/23/2004         09:35:00         10          CTS/100ML         0.05          MG/L         0.40         MG/L           ROUTINE SAMPLE         04/20/2004         09:30:00         10          CTS/100ML         0.05         <	ROUTINE SAMPLE	09/27/2004	10:10:00	nd		MG/L	nd	UG/L	4.37	MG/L	42	%
ROUTINE SAMPLE         12/07/2004         09:36:00         2.40          MG/L         1.07         UG/L         12.10         MG/L         82.70         %           FIELD DUPLICATE         12/07/2004         09:55:00         2.40          MG/L         1.26         UG/L         11.54         MG/L         79.10         %           ACTIVITY CATEGORY         START DATE         TIME         RESULTS         QUAL         UNITS         RESULTS         QUAL         UNITS         RESULTS         UNITS           ROUTINE SAMPLE         03/23/2004         09:35:00         10          CTS/100ML         0.05          MG/L         0.40         MG/L           ROUTINE SAMPLE         04/20/2004         09:30:00         10          CTS/100ML         0.20          MG/L         0.40         MG/L           ROUTINE SAMPLE         05/18/2004         09:25:00         100         CTS/100ML         0.05         <	ROUTINE SAMPLE	10/20/2004	11:58:00	2.40	<	MG/L	1.82	UG/L	7.26	MG/L	62.30	%
FIELD DUPLICATE 12/07/2004 09:55:00 2.40 < MG/L 1.26 UG/L 11.54 MG/L 79.10 %    Column	ROUTINE SAMPLE	11/17/2004	10:04:00	2.40	<	MG/L	2.89	UG/L	10.92	MG/L	76.90	%
ACTIVITY START START CATEGORY DATE TIME RESULTS QUAL UNITS RESULTS QUAL UNITS RESULTS UNITS  ROUTINE SAMPLE 03/23/2004 09:35:00 10 < CTS/100ML 0.05 < MG/L 0.40 MG/L O.40 MG/L O	ROUTINE SAMPLE	12/07/2004	09:36:00	2.40	<	MG/L	1.07	UG/L	12.10	MG/L	82.70	%
ACTIVITY   START   START   CATEGORY   DATE   TIME   RESULTS   QUAL   UNITS   RESULTS   QUAL   UNITS   RESULTS   UNITS	FIELD DUPLICATE	12/07/2004	09:55:00	2.40	<	MG/L	1.26	UG/L	11.54	MG/L	79.10	%
ACTIVITY   START   START   CATEGORY   DATE   TIME   RESULTS   QUAL   UNITS   RESULTS   QUAL   UNITS   RESULTS   UNITS												
CATEGORY         DATE         TIME         RESULTS         QUAL         UNITS         RESULTS         QUAL         UNITS         RESULTS         QUAL         UNITS         RESULTS         UNITS           ROUTINE SAMPLE         03/23/2004         09:35:00         10          CTS/100ML         0.05         <				EC	EC	EC	NITR	NITR	NITR	TKN	TKN	
ROUTINE SAMPLE       03/23/2004       09:35:00       10       < CTS/100ML												
ROUTINE SAMPLE       04/20/2004       09:30:00       10       < CTS/100ML					QUAL			QUAL				
ROUTINE SAMPLE       05/18/2004       09:25:00       100       CTS/100ML       0.05       < MG/L	ROUTINE SAMPLE		09:35:00	10	<	CTS/100ML	0.05	<		0.40		
ROUTINE SAMPLE 06/15/2004 09:32:00 180 CTS/100ML 0.05 < MG/L 1 MG/L	ROUTINE SAMPLE	04/20/2004	09:30:00	10	<	CTS/100ML	0.20	<	MG/L	0.40	MG/L	
	ROUTINE SAMPLE	05/18/2004	09:25:00	100		CTS/100ML	0.05	<	MG/L	0.80	MG/L	
ROUTINE SAMPLE 07/20/2004 09:30:00 110 CTS/100ML 0.05 < MG/L 1 MG/L	ROUTINE SAMPLE	06/15/2004	09:32:00	180		CTS/100ML	0.05	<	MG/L	1	MG/L	
	ROUTINE SAMPLE	07/20/2004	09:30:00	110		CTS/100ML	0.05	<	MG/L	1	MG/L	
ROUTINE SAMPLE 08/11/2004 09:38:00 10 CTS/100ML 0.05 < MG/L 1.10 MG/L	ROUTINE SAMPLE	08/11/2004	09:38:00	10		CTS/100ML	0.05	<	MG/L	1.10	MG/L	
ROUTINE SAMPLE 09/22/2004 11:45:00 140 CTS/100ML 0.05 < MG/L 0.90 MG/L	ROUTINE SAMPLE	09/22/2004	11:45:00	140		CTS/100ML	0.05	<	MG/L	0.90	MG/L	
ROUTINE SAMPLE 09/27/2004 10:10:00 nd CTS/100ML nd MG/L nd MG/L	ROUTINE SAMPLE	09/27/2004	10:10:00	nd		CTS/100ML	nd		MG/L	nd	MG/L	
ROUTINE SAMPLE 10/20/2004 11:58:00 170 CTS/100ML 0.05 < MG/L 0.80 MG/L	ROUTINE SAMPLE	10/20/2004	11:58:00	170		CTS/100ML	0.05	<	MG/L	0.80	MG/L	
	ROUTINE SAMPLE	11/17/2004	10:04:00	100		CTS/100ML	0.10	<	MG/L	0.70	MG/L	
	ROUTINE SAMPLE	12/07/2004	09:36:00	20		CTS/100ML	0.05	<	MG/L	0.5	MG/L	
ROUTINE SAMPLE 11/17/2004 10:04:00 100 CTS/100ML 0.10 < MG/L 0.70 MG/L	FIELD DUPLICATE	12/07/2004	09:55:00	10		CTS/100ML	0.05	<	MG/L	0.5	MG/L	

4 OTIV (IT) (	OTABT	OTABT	NO2NO3	NO2NO3	NO2NO3	PH	PH	Р	Р	COND	COND
ACTIVITY CATEGORY	START DATE	START TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/23/2004	09:35:00	0.05	<	MG/L	5.36	UNITS	0.0170	MG/L	174.70	US/CM
ROUTINE SAMPLE	04/20/2004	09:30:00	0.05	<	MG/L	5.72	UNITS	0.0110	MG/L	180	US/CM
ROUTINE SAMPLE	05/18/2004	09:25:00	0.05	<	MG/L	5.90	UNITS	0.0180	MG/L	287	US/CM
ROUTINE SAMPLE	06/15/2004	09:32:00	0.05	<	MG/L	5.94	UNITS	0.0260	MG/L	231.70	US/CM
ROUTINE SAMPLE	07/20/2004	09:30:00	0.05	<	MG/L	5.76	UNITS	0.03	MG/L	260.60	US/CM
ROUTINE SAMPLE	08/11/2004	09:38:00	0.05	<	MG/L	6.06	UNITS	0.0420	MG/L	322	US/CM
ROUTINE SAMPLE	09/22/2004	11:45:00	0.05	<	MG/L	5.75	UNITS	0.0290	MG/L	193.90	US/CM
ROUTINE SAMPLE	09/27/2004	10:10:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	US/CM
ROUTINE SAMPLE	10/20/2004	11:58:00	0.05	<	MG/L	6.68	UNITS	0.0310	MG/L	230.60	US/CM
ROUTINE SAMPLE	11/17/2004	10:04:00	nd		MG/L	7.08	UNITS	0.0440	MG/L	nd	US/CM
ROUTINE SAMPLE	12/07/2004	09:36:00	0.05		MG/L	6.7	UNITS	0.0160	MG/L	119.30	US/CM
FIELD DUPLICATE	12/07/2004	09:55:00	0.06		MG/L	6.7	UNITS	0.0160	MG/L	117.20	US/CM
			TEMP	TEMP	TSS	TSS	TSS	TURB	TURB	WEATHER C	COMMENTS
ACTIVITY	START	START									OMMENTS
CATEGORY	DATE	TIME	RESULTS	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	
CATEGORY ROUTINE SAMPLE	DATE 03/23/2004	TIME 09:35:00	RESULTS 0.80	UNITS DEG C	RESULTS 1		UNITS MG/L	RESULTS 0.60	UNITS NTU	RESULTS CLEAR, BRE	EZY, 40'S
CATEGORY	DATE	TIME	RESULTS	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS CLEAR, BRE	EZY, 40'S
CATEGORY ROUTINE SAMPLE	DATE 03/23/2004	TIME 09:35:00	RESULTS 0.80	UNITS DEG C	RESULTS 1	QUAL	UNITS MG/L	RESULTS 0.60	UNITS NTU	RESULTS CLEAR, BRE	EZY, 40'S DY, 50'S TENT
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004	TIME 09:35:00 09:30:00	0.80 13.60	UNITS DEG C DEG C	RESULTS 1 2	QUAL <	UNITS MG/L MG/L	0.60 0.45	UNITS NTU NTU	RESULTS CLEAR, BRE CLEAR, WIN CLOUDY W/INTERMIT	EZY, 40'S DY, 50'S TENT , 60'S
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004 05/18/2004	TIME 09:35:00 09:30:00 09:25:00	0.80 13.60 15.60	UNITS DEG C DEG C	RESULTS  1 2	QUAL <	UNITS MG/L MG/L	0.60 0.45 1.30	UNITS  NTU  NTU  NTU	RESULTS  CLEAR, BRE CLEAR, WIN CLOUDY W/INTERMIT RAIN, CALM CLOUDY W/	EZY, 40'S DY, 50'S TENT , 60'S O RAIN, EGREES F O RAIN,
CATEGORY  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE	DATE  03/23/2004  04/20/2004  05/18/2004  06/15/2004  07/20/2004	TIME 09:35:00 09:30:00 09:25:00 09:32:00 09:30:00	0.80 13.60 15.60 19.20	DEG C DEG C DEG C DEG C	RESULTS  1 2  1 1 5	QUAL <	MG/L MG/L MG/L MG/L	0.60 0.45 1.30 1.70	UNITS  NTU  NTU  NTU  NTU  NTU	RESULTS  CLEAR, BRE CLEAR, WIN CLOUDY W/INTERMIT RAIN, CALM CLOUDY W/CALM, 80 DE CLOUDY W/CALM, 80 DEGREES CLOUDY W/CALM	EZY, 40'S DY, 50'S TENT , 60'S O RAIN, EGREES F O RAIN,
CATEGORY  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE	DATE  03/23/2004  04/20/2004  05/18/2004  06/15/2004  07/20/2004  08/11/2004	TIME  09:35:00  09:30:00  09:25:00  09:32:00  09:30:00  09:38:00	0.80 13.60 15.60 19.20 19.80 19.40	DEG C DEG C DEG C DEG C DEG C	1 2 1 1 1 1 5 18.50	QUAL <	MG/L MG/L MG/L MG/L MG/L	0.60 0.45 1.30 1.70 2.10	NTU NTU NTU NTU NTU NTU NTU	RESULTS  CLEAR, BRE CLEAR, WIN CLOUDY W/INTERMIT RAIN, CALM CLOUDY W/CALM, 80 DE CLOUDY W/CALM, 80 DEGREES CLOUDY W/CALM, 70S	EZY, 40'S DY, 50'S TENT , 60'S O RAIN, EGREES F O RAIN, S F O RAIN,
CATEGORY  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE	DATE  03/23/2004  04/20/2004  05/18/2004  06/15/2004  07/20/2004	TIME 09:35:00 09:30:00 09:25:00 09:32:00 09:30:00	0.80 13.60 15.60 19.20	DEG C DEG C DEG C DEG C	RESULTS  1 2  1 1 5	QUAL <	MG/L MG/L MG/L MG/L	0.60 0.45 1.30 1.70	UNITS  NTU  NTU  NTU  NTU  NTU	RESULTS  CLEAR, BRE CLEAR, WIN CLOUDY W/INTERMIT RAIN, CALM CLOUDY W/CALM, 80 DE CLOUDY W/CALM, 80 DEGREES CLOUDY W/CALM	EZY, 40'S DY, 50'S TENT , 60'S O RAIN, EGREES F O RAIN, S F O RAIN, M, 70S

ROUTINE SAMPLE	10/20/2004	11:58:00	8.20	DEG C	5	<	MG/L	2	NTU	CLOUDY W/O RAIN, WIND, 60S	
ROUTINE SAMPLE	11/17/2004	10:04:00	4.30	DEG C	12.50		MG/L	15	NTU	CLEAR, CALM, 50S	
ROUTINE SAMPLE	12/07/2004	09:36:00	-0.10	DEG C	5	<	MG/L	1.30	NTU	CLOUDY W/SNOW, BREEZE, 20S	
FIELD DUPLICATE	12/07/2004	09:55:00	-0.10	DEG C	5	<	MG/L	1.30	NTU	CLOUDY W/SNOW, BREEZE, 20S	
Legend											
BOD	BIOCHEMIC	AL OXYGEN D	EMAND			COND					
CHL	CHLOROPH	YLL A, UNCOF	RRECTED F	OR PHEOPH	PHEOPHYTIN TEMP TEMPERATURE WATER						
DO	DISSOLVED	OXYGEN				TSS	TOTAL SUSPENDED SOLIDS TURBIDITY				
DO SAT	DISSOLVED	OXYGEN SAT	TURATION			TURB					
DELETED	LAB ACCIDE	NT									
EC	ESCHERICH	IIA COLI									
NITR	NITROGEN A	AIMONIA									
TKN	NITROGEN I	KJELDAHL									
nd	NO SAMPLE	COLLECTED	OR NO ME	ASUREMENT	MADE						
NO2NO3	NITROGEN I	NITRATE + NI	TRITE								
Р	PHOSPHOR	US AS P									
QUAL	QUALIFIER										

## Sagamore Creek at Peverly Hill Road, Portsmouth, 05-Sag Note: Data not meeting RPD are shaded.

ACTIVITY	START	START	BOD	BOD	BOD	CHL	CHL	DO	DO	DO SAT	DO SAT
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE ROUTINE	03/23/2004	09:59:00	2.40	<	MG/L	1.64	UG/L	13.34	MG/L	102.40	%
SAMPLE ROUTINE	04/20/2004	10:05:00	2.40	<	MG/L	2.52	UG/L	11.23	MG/L	111.40	%
SAMPLE	05/18/2004	09:53:00	2.40	<	MG/L	3.86	UG/L	9.48	MG/L	99.70	%

ROUTINE SAMPLE	06/15/2004	10:00:00	4.10		MG/L	2.68	UG/L	7.73	MG/L	86.60	%
ROUTINE	00/13/2004	10.00.00	4.10		WIG/L	2.00	UG/L	1.13	IVIG/L	00.00	70
SAMPLE	07/20/2004	10:02:00	2.50		MG/L	6.52	UG/L	5.65	MG/L	64.50	%
ROUTINE											
SAMPLE	08/11/2004	10:06:00	2.40	<	MG/L	2.54	UG/L	7.56	MG/L	86.30	%
ROUTINE SAMPLE	09/22/2004	12:10:00	2.40	<	MG/L	nd	UG/L	nd	MG/L	nd	%
ROUTINE	09/22/2004	12.10.00	2.40		IVIG/L	nu	UG/L	nu	IVIG/L	nu	/0
SAMPLE	09/27/2004	10:25:00	nd		MG/L	nd	UG/L	7.05	MG/L	74.20	%
ROUTINE											
SAMPLE	10/20/2004	12:18:00	2.40	<	MG/L	3.25	UG/L	9.58	MG/L	86.40	%
ROUTINE	44/47/0004	40.05.00	0.40						140 (		0.4
SAMPLE ROUTINE	11/17/2004	10:35:00	2.40	<	MG/L	4.17	UG/L	11.51	MG/L	88.80	%
SAMPLE	12/07/2004	10:25:00	2.40	<	MG/L	4.01	UG/L	10.58	MG/L	76.50	%
O/ (IVII LL	12/01/2004	10.20.00	2.40		WO/L	7.01	OO/L	10.00	IVIO/L	70.00	70
ACTIVITY	START	START	EC	EC	EC	NITR	NITR	NITR	TKN	TKN	]
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	
ROUTINE	27112		RECOLIC	Q0/12	00	REGGETO	Q0/12	011110	- KEGGETG	011110	
SAMPLE	03/23/2004	09:59:00	10	<	CTS/100ML	0.05	<	MG/L	0.70	MG/L	
ROUTINE											
SAMPLE	04/20/2004	10:05:00	10	<	CTS/100ML	0.20	<	MG/L	0.50	MG/L	
ROUTINE SAMPLE	05/49/2004	00.53.00	110		CTS/100ML	0.05		MG/L	0.70	MG/L	
ROUTINE	05/18/2004	09:53:00	110		C13/100IVIL	0.05	<	IVIG/L	0.70	IVIG/L	
SAMPLE	06/15/2004	10:00:00	10	<	CTS/100ML	0.08		MG/L	0.70	MG/L	
ROUTINE											
SAMPLE	07/20/2004	10:02:00	10		CTS/100ML	0.05	<	MG/L	0.80	MG/L	
ROUTINE					0-0/						
SAMPLE ROUTINE	08/11/2004	10:06:00	70		CTS/100ML	0.05	<	MG/L	0.60	MG/L	
SAMPLE	09/22/2004	12:10:00	20		CTS/100ML	0.05	<	MG/L	0.40	MG/L	
ROUTINE	03/22/2004	12.10.00	20		O 10/ 100IVIL	0.03		IVIO/L	0.40	IVIO/L	
SAMPLE	09/27/2004	10:25:00	nd		CTS/100ML	nd		MG/L	nd	MG/L	
ROUTINE											
SAMPLE	10/20/2004	12:18:00	70		CTS/100ML	0.05		MG/L	0.60	MG/L	
ROUTINE	44/47/0004	40.05.00	40		OTO (4.00M)	0.40		N40/I	0.70	NAO /I	
SAMPLE ROUTINE	11/17/2004	10:35:00	10	<	CTS/100ML	0.10	<	MG/L	0.70	MG/L	
SAMPLE	12/07/2004	10:25:00	10		CTS/100ML	0.05	<	MG/L	0.5	MG/L	
	,,		. •		5 . 5, 100mL	0.00	•	5, =	0.0	5/ =	Ī

ACTIVITY	START	START	NO2NO3	NO2NO3	NO2NO3	PH	PH	Р	Р	COND	COND
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE											
SAMPLE	03/23/2004	09:59:00	0.09		MG/L	6.68	UNITS	0.0280	MG/L	820	UMHOS/CM
ROUTINE											
SAMPLE	04/20/2004	10:05:00	0.05	<	MG/L	6.83	UNITS	0.0250	MG/L	766	UMHOS/CM
ROUTINE											
SAMPLE	05/18/2004	09:53:00	0.05	<	MG/L	5.98	UNITS	0.0240	MG/L	918	UMHOS/CM
ROUTINE	00/45/0004	40.00.00	0.05			0.40				4400	
SAMPLE	06/15/2004	10:00:00	0.05	<	MG/L	6.49	UNITS	0.02	MG/L	1183	UMHOS/CM
ROUTINE	07/00/0004	40.00.00	0.05			0.44				4000	
SAMPLE	07/20/2004	10:02:00	0.05	<	MG/L	6.41	UNITS	0.02	MG/L	1202	UMHOS/CM
ROUTINE							=-				
SAMPLE	08/11/2004	10:06:00	0.05	<	MG/L	6.87	UNITS	0.0140	MG/L	1418	UMHOS/CM
ROUTINE							=-				
SAMPLE	09/22/2004	12:10:00	0.07		MG/L	6.28	UNITS	0.0160	MG/L	708	UMHOS/CM
ROUTINE	00/07/0004	40.05.00									
SAMPLE	09/27/2004	10:25:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE	40/00/0004	10.10.00	0.05			0.40		0.0470		200	
SAMPLE	10/20/2004	12:18:00	0.05		MG/L	6.43	UNITS	0.0170	MG/L	868	UMHOS/CM
ROUTINE	44/47/0004	40.05.00			140/	0.54	LINUTO	0.0000	NAO (I	4405	
SAMPLE	11/17/2004	10:35:00	nd		MG/L	6.51	UNITS	0.0220	MG/L	1125	UMHOS/CM
ROUTINE	40/07/0004	40.05.00	0.40		N40/I	7.5	LINUTO	0.0400	N40/I	400	
SAMPLE	12/07/2004	10:25:00	0.12		MG/L	7.5	UNITS	0.0180	MG/L	463	UMHOS/CM
										WEATHER	
ACTIVITY	START	START	TEMP	TEMP	TSS	TSS	TSS	TURB	TURB	COMMENTS	[
CATEGORY	DATE	TIME	RESULTS	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	
ROUTINE											
SAMPLE	03/23/2004	09:59:00	4.40	DEG C	4		MG/L	6.20	NTU	CLEAR, BREEZY, 40'S	
ROUTINE											
SAMPLE	04/20/2004	10:05:00	15	DEG C	10		MG/L	10	NTU	CLEAR, WINDY, 50'S	
ROUTINE										CLOUDY W/INTERMIT	TENT DAIN
SAMPLE	05/18/2004	09:53:00	17.80	DEG C	3.50		MG/L	4	NTU	BREEZY, 60'S	I EIN I KAIN,
ROUTINE	03/10/2004	09.00.00	17.00	DLGC	3.30		WG/L	4	INTO	DIVELET, 00 3	
SAMPLE	06/15/2004	10:00:00	20.90	DEG C	3		MG/L	3.20	NTU	CLOUDY, CALM, 80 F	
ROUTINE	00/13/2004	10.00.00	20.30	DLGO	3		IVIG/L	5.20	1410	OLOOD I, OALIVI, OU F	
SAMPLE	07/20/2004	10:02:00	22	DEG C	6		MG/L	2.10	NTU	CLOUDY, CALM, 80 F	
_				DEG C							0
ROUTINE	08/11/2004	10:06:00	22.30	DEGC	7		MG/L	1.20	NTU	CLOUDY, BREEZE, 70	5

SAMPLE										
ROUTINE										
SAMPLE	09/22/2004	12:10:00	18.30	DEG C	5	<	MG/L	2.10	NTU	CLEAR, CALM, 70S
ROUTINE										
SAMPLE	09/27/2004	10:25:00	18.10	DEG C	nd		MG/L	nd	NTU	CLEAR, CALM, 60S
ROUTINE										
SAMPLE	10/20/2004	12:18:00	10.30	DEG C	5		MG/L	3.40	NTU	CLOUDY W/O RAIN, WIND
ROUTINE										
SAMPLE	11/17/2004	10:35:00	4.50	DEG C	5	<	MG/L	4.10	NTU	CLEAR, BREEZE, 50S
ROUTINE										
SAMPLE	12/07/2004	10:25:00	2	DEG C	5		MG/L	5	NTU	CLOUDY W/SNOW, 24F

Legend

BOD BIOCHEMICAL OXYGEN DEMAND

CHL CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN

DO DISSOLVED OXYGEN

DO SAT DISSOLVED OXYGEN SATURATION

DELETED LAB ACCIDENT
EC ESCHERICHIA COLI
NITR NITROGEN AMMONIA
TKN NITROGEN KJELDAHL

nd NO SAMPLE COLLECTED OR NO MEASUREMENT MADE

NO2NO3 NITROGEN NITRATE + NITRITE

P PHOSPHORUS AS P

QUAL QUALIFIER

COND SPECIFIC CONDUCTANCE
TEMP TEMPERATURE WATER
TSS TOTAL SUSPENDED SOLIDS

TURB TURBIDITY

## Winnicut River at Rt. 33 Bridge, Greenland, 02-WNC Note: Data not meeting RPD are shaded.

ACTIVITY	START	START	BOD	BOD	BOD	CHL	CHL	DO	DO	DO SAT	DO SAT
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE											
SAMPLE	03/23/2004	10:35:00	2.40	<	MG/L	1.26	UG/L	12.25	MG/L	87.50	%
ROUTINE	04/00/0004	40.00.00	2.40		NAC/I	0.44	110/1	7.00	NAC/I	70.00	%
SAMPLE ROUTINE	04/20/2004	10:20:00	2.40	<	MG/L	2.14	UG/L	7.62	MG/L	76.30	%
SAMPLE	05/18/2004	10:16:00	2.40	<	MG/L	3.27	UG/L	6.64	MG/L	69.60	%
FIELD	00, 10, 200 .					0	0 0, =	0.0 .		00.00	,,
DUPLICATE	05/18/2004	10:16:00	2.40	<	MG/L	3.08	UG/L	6.61	MG/L	69.40	%
ROUTINE											
SAMPLE	06/15/2004	10:25:00	2.40	<	MG/L	6	UG/L	6.58	MG/L	74.10	%
ROUTINE	07/00/0004	40.00.00				44.00		7.10		00.70	0.4
SAMPLE ROUTINE	07/20/2004	10:20:00	3		MG/L	11.99	UG/L	7.10	MG/L	82.70	%
SAMPLE	08/11/2004	10:30:00	2.40	<	MG/L	3.30	UG/L	8.77	MG/L	102.70	%
ROUTINE	00/11/2004	10.30.00	2.40		IVIG/L	3.30	UG/L	0.77	IVIG/L	102.70	
SAMPLE	09/22/2004	09:55:00	2.40	<	MG/L	nd	UG/L	nd	MG/L	nd	%
FIELD	00/22/2001	00.00.00	2.10		1110/2	114	00/2	114		114	70
DUPLICATE	09/22/2004	10:20:00	2.40	<	MG/L	nd	UG/L	nd	MG/L	nd	%
ROUTINE											
SAMPLE	09/27/2004	10:42:00	nd		MG/L	nd	UG/L	5.84	MG/L	60.50	%
FIELD											
DUPLICATE	09/27/2004	10:48:00	nd		MG/L	nd	UG/L	5.60	MG/L	58	%
ROUTINE	40/00/0004	44.45.00	2.40		NAC/I	0.40	110/1	0.07	NAC/I	74.00	0/
SAMPLE ROUTINE	10/20/2004	11:15:00	2.40	<	MG/L	2.18	UG/L	8.07	MG/L	71.80	%
SAMPLE	11/17/2004	11:02:00	2.40	<	MG/L	1.07	UG/L	10.74	MG/L	81.40	%
FIELD	11/11/2004	11.02.00	2.40		IVIO/L	1.07	OO/L	10.74	IVIO/L	01.40	70
DUPLICATE	11/17/2004	11:15:00	2.40	<	MG/L	1.28	UG/L	10.66	MG/L	80.3	%
ROUTINE										-	, ,
SAMPLE	12/07/2004	10:55:00	2.40	<	MG/L	1.09	UG/L	12.14	MG/L	83.80	%
ACTIVITY	START	START	EC	EC	EC	NITR	NITR	NITR	TKN	TKN	
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	QUALIFIER	UNITS	RESULTS	UNITS	
ROUTINE	DAIL	I IIVIL	KLOULIO	QUAL	UNITO	REGULTS	QUALII IER	UNITS	KLOULIO	UNITO	I
SAMPLE	03/23/2004	10:35:00	10	<	CTS/100ML	0.05	<	MG/L	0.40	MG/L	
O, IIII LL	33/20/200 <del>1</del>	. 0.00.00	10	•	010/100ML	0.00	•	1V10/L	0.10	1V10/L	

ROUTINE SAMPLE	04/20/2004	10,20,00	60		CTC/400MI	0.20		MG/L	0.40	MG/L	
ROUTINE	04/20/2004	10:20:00	60		CTS/100ML	0.20	<	IVIG/L	0.40	IVIG/L	
SAMPLE	05/18/2004	10:16:00	50		CTS/100ML	0.05	<	MG/L	3.40	MG/L	
FIELD DUPLICATE	05/18/2004	10:16:00	30		CTS/100ML	0.06		MG/L	0.70	MG/L	
ROUTINE SAMPLE	06/15/2004	10:25:00	70		CTS/100ML	0.05	<	MG/L	0.80	MG/L	
ROUTINE SAMPLE	07/20/2004	10:20:00	40		CTS/100ML	0.05	<	MG/L	0.60	MG/L	
ROUTINE SAMPLE	08/11/2004	10:30:00	70		CTS/100ML	0.05	<	MG/L	0.80	MG/L	
ROUTINE SAMPLE	09/22/2004	09:55:00	150		CTS/100ML	0.05	<	MG/L	0.80	MG/L	
FIELD DUPLICATE	09/22/2004	10:20:00	90		CTS/100ML	0.05	<	MG/L	0.80	MG/L	
ROUTINE SAMPLE	09/27/2004	10:42:00	nd		CTS/100ML	nd		MG/L	nd	MG/L	
FIELD DUPLICATE	09/27/2004	10:48:00	nd		CTS/100ML	nd		MG/L	nd	MG/L	
ROUTINE SAMPLE	10/20/2004	11.15.00	80		CTC/400MI	0.05		NAC /I	0.00	MC/I	
ROUTINE	10/20/2004	11:15:00	80		CTS/100ML	0.05		MG/L	0.80	MG/L	
SAMPLE	11/17/2004	11:02:00	10	<	CTS/100ML	0.10	<	MG/L	0.60	MG/L	
FIELD DUPLICATE	11/17/2004	11:15:00	10		CTS/100ML	0.10	<	MG/L	0.60	MG/L	
ROUTINE SAMPLE	12/07/2004	10:55:00	30		CTS/100ML	0.05	<	MG/L	0.5	MG/L	
A OTIV (IT) (	OTA DT	OT A D.T.	NOONOO	NOONOO	NOONOO	DU	DU			COND	00110
ACTIVITY	START	START	NO2NO3	NO2NO3	NO2NO3	PH	PH	P	P	COND	COND
CATEGORY	DATE	TIME	RESULTS	QUALIFIER	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/23/2004	10:35:00	0.36		MG/L	6.97	UNITS	0.0290	MG/L	176.60	UMHOS/CM
ROUTINE SAMPLE	04/20/2004	10:20:00	0.09		MG/L	6.82	UNITS	0.0150	MG/L	227.80	UMHOS/CM
ROUTINE SAMPLE	05/18/2004	10:16:00	0.10		MG/L	6.35	UNITS	0.0310	MG/L	335.70	UMHOS/CM
FIELD DUPLICATE ROUTINE	05/18/2004	10:16:00	0.10		MG/L	6.31	UNITS	0.0370	MG/L	336.40	UMHOS/CM
SAMPLE	06/15/2004	10:25:00	0.10		MG/L	6.90	UNITS	0.0470	MG/L	311.60	UMHOS/CM

ROUTINE SAMPLE	07/20/2004	10:20:00	0.05		MG/L	6.65	UNITS	0.0360	MG/L	368.20	UMHOS/CM
ROUTINE SAMPLE	08/11/2004	10:30:00	0.05	<	MG/L	6.91	UNITS	0.0420	MG/L	425.80	UMHOS/CM
ROUTINE											OIVII 103/CIVI
SAMPLE FIELD	09/22/2004	09:55:00	0.05	<	MG/L	6.65	UNITS	0.0370	MG/L	255.10	UMHOS/CM
DUPLICATE	09/22/2004	10:20:00	0.05	<	MG/L	6.61	UNITS	0.0390	MG/L	255.60	UMHOS/CM
ROUTINE SAMPLE FIELD	09/27/2004	10:42:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
DUPLICATE ROUTINE	09/27/2004	10:48:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
SAMPLE	10/20/2004	11:15:00	0.08		MG/L	6.56	UNITS	0.0610	MG/L	277	UMHOS/CM
ROUTINE SAMPLE	11/17/2004	11:02:00	nd		MG/L	6.82	UNITS	0.0280	MG/L	346.40	UMHOS/CM
FIELD DUPLICATE ROUTINE	11/17/2004	11:15:00	nd		MG/L	6.86	UNITS	0.0270	MG/L	347.5	UMHOS/CM
SAMPLE	12/07/2004	10:55:00	0.16		MG/L	7.1	UNITS	0.02	MG/L	151.40	UMHOS/CM
ACTIVITY	START	START	TEMP	TEMP	TSS	TSS	TSS	TURB	TURB	WEATHER (	COMMENTS
ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER ( RESULTS	COMMENTS
CATEGORY ROUTINE SAMPLE											
CATEGORY ROUTINE	DATE	TIME	RESULTS	UNITS	RESULTS		UNITS	RESULTS	UNITS	CLEAR, BRI	EEZY, 40'S
CATEGORY ROUTINE SAMPLE ROUTINE	DATE 03/23/2004	10:35:00	1.60	UNITS DEG C	RESULTS 3		UNITS MG/L	RESULTS 4	UNITS NTU	CLEAR, BRI CLEAR, BRI CLOUDY W/INTERMI' RAIN, BREE	EEZY, 40'S EEZY, 50'S ITENT
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE	DATE 03/23/2004 04/20/2004	TIME 10:35:00 10:20:00	1.60 15.50	DEG C DEG C	3 2.50	QUAL	UNITS  MG/L  MG/L	RESULTS 4 2.20	UNITS NTU NTU	CLEAR, BRI CLEAR, BRI CLOUDY W/INTERMI	EEZY, 40'S EEZY, 50'S ITENT EZY, 60'S
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE FIELD	DATE 03/23/2004 04/20/2004 05/18/2004	TIME  10:35:00  10:20:00  10:16:00	1.60 15.50 17.90	DEG C DEG C DEG C	3 2.50	QUAL	MG/L MG/L MG/L	4 2.20 2.80	NTU NTU NTU	CLEAR, BRI CLEAR, BRI CLOUDY W/INTERMI' RAIN, BREE CLOUDY W.INTERMI'	EEZY, 40'S EEZY, 50'S ITENT EZY, 60'S ITENT EZY, 60'S
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE  ROUTINE	DATE  03/23/2004  04/20/2004  05/18/2004  05/18/2004	TIME  10:35:00  10:20:00  10:16:00  10:16:00	1.60 15.50 17.90 17.70	DEG C DEG C DEG C DEG C	3 2.50 1	QUAL <	MG/L MG/L MG/L MG/L	RESULTS  4  2.20  2.80  2.90	NTU NTU NTU NTU	RESULTS  CLEAR, BRI CLOUDY W/INTERMI' RAIN, BREE CLOUDY W.INTERMI' RAIN, BREE CLOUDY W. BREEZY, 80 DEGREE CLOUDY W.	EEZY, 40'S EEZY, 50'S ITENT EZY, 60'S ITENT EZY, 60'S ORAIN, ES F
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE  ROUTINE SAMPLE ROUTINE ROUTINE ROUTINE ROUTINE ROUTINE	DATE  03/23/2004  04/20/2004  05/18/2004  05/18/2004	TIME  10:35:00  10:20:00  10:16:00  10:16:00  10:25:00	1.60 15.50 17.90 17.70 21.20	DEG C DEG C DEG C DEG C DEG C	3 2.50 1 1	QUAL <	MG/L MG/L MG/L MG/L MG/L	RESULTS  4 2.20 2.80 2.90 7.20	NTU NTU NTU NTU NTU	RESULTS  CLEAR, BRI CLOUDY W/INTERMI' RAIN, BREE CLOUDY W.INTERMI' RAIN, BREE CLOUDY W. BREEZY, 80 DEGREE CLOUDY W.	EEZY, 40'S EEZY, 50'S ITENT EZY, 60'S ITENT EZY, 60'S /O RAIN, O DEGREES F

ROUTINE SAMPLE	09/22/2004	09:55:00	16.20	DEG C	5	<	MG/L	3.10	NTU	CLEAR, CALM, 60 DEGREES F
FIELD DUPLICATE	09/22/2004	10:20:00	16.10	DEG C	5	<	MG/L	3.20	NTU	CLEAR, CALM, 60 DEGREES F
ROUTINE SAMPLE	09/27/2004	10:42:00	17.60	DEG C	nd		MG/L	nd	NTU	CLEAR, CALM, 60 DEGREES F
FIELD DUPLICATE	09/27/2004	10:48:00	17.50	DEG C	nd		MG/L	nd	NTU	CLEAR, CALM, 70 DEGREES F
ROUTINE SAMPLE ROUTINE	10/20/2004	11:15:00	10.20	DEG C	5		MG/L	5	NTU	CLEAR, WIND, 60S
SAMPLE FIELD	11/17/2004	11:02:00	3.80	DEG C	5	<	MG/L	4.10	NTU	CLEAR, CALM, 50S
DUPLICATE	11/17/2004	11:15:00	3.5	DEG C	5	<	MG/L	4.4	NTU	CLEAR, CALM, 50S
ROUTINE SAMPLE	12/07/2004	10:55:00	0.30	DEG C	5	<	MG/L	3.10	NTU	CLOUDY W/SNOW, CALM, 24 DEGREES F

### Legend

DOLUTINE

BOD BIOCHEMICAL OXYGEN DEMAND

CHL CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN

DO DISSOLVED OXYGEN

DO SAT DISSOLVED OXYGEN SATURATION

DELETED LAB ACCIDENT
EC ESCHERICHIA COLI
NITR NITROGEN AMMONIA
TKN NITROGEN KJELDAHL

nd NO SAMPLE COLLECTED OR NO MEASUREMENT MADE

NO2NO3 NITROGEN NITRATE + NITRITE

P PHOSPHORUS AS P

QUAL QUALIFIER

COND SPECIFIC CONDUCTANCE
TEMP TEMPERATURE WATER
TSS TOTAL SUSPENDED SOLIDS

TURB TURBIDITY

## Exeter River at the High Street Bridge, Exeter, 09-EXT Note: Data not meeting RPD are shaded.

A OTIV (IT) (	OTABT	OTART	BOD	BOD	BOD	CHL	CHL	DO	DO	DO SAT	DO SAT
ACTIVITY CATEGORY	START DATE	START TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/23/2004	11:17:00	2.40	<	MG/L	1.09	UG/L	12.60	MG/L	88.80	%
ROUTINE SAMPLE	04/20/2004	10:45:00	2.40	<	MG/L	1.61	UG/L	9.05	MG/L	89.30	%
FIELD DUPLICATE	04/20/2004	11:00:00	2.40	<	MG/L	1.80	UG/L	8.77	MG/L	86.40	%
ROUTINE SAMPLE	05/18/2004	11:00:00	2.40	<	MG/L	2.35	UG/L	7.52	MG/L	81.50	%
ROUTINE SAMPLE	06/15/2004	11:00:00	2.40	<	MG/L	7.66	UG/L	7.18	MG/L	82.90	%
ROUTINE SAMPLE	07/20/2004	10:55:00	2.40	<	MG/L	9.22	UG/L	5.84	MG/L	69.20	%
ROUTINE SAMPLE	08/11/2004	11:00:00	2.4		MG/L	9.53	UG/L	9.06	MG/L	108.70	%
ROUTINE SAMPLE	09/22/2004	10:55:00	2.40	<	MG/L	nd	UG/L	nd	MG/L	nd	%
ROUTINE SAMPLE	09/27/2004	11:08:00	nd		MG/L	nd	UG/L	6.65	MG/L	70.10	%
ROUTINE SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	1.59	UG/L	7.80	MG/L	69	%
<b>ROUTINE SAMPLE</b>	11/17/2004	11:48:00	2.40	<	MG/L	0.90	UG/L	11.81	MG/L	90.50	%
ROUTINE SAMPLE	12/08/2004	09:32:00	3		MG/L	1.42	UG/L	13.07	MG/L	92.20	%
			EC	EC	EC	NITR	NITR	NITR	TKN	TKN	
ACTIVITY	START	START									
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	
CATEGORY ROUTINE SAMPLE	DATE 03/23/2004	TIME 11:17:00	RESULTS 10		UNITS CTS/100ML	RESULTS 0.05		UNITS MG/L	RESULTS 0.40	UNITS MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004	TIME 11:17:00 10:45:00	RESULTS 10 10	QUAL	UNITS CTS/100ML CTS/100ML	0.05 0.20	QUAL	UNITS MG/L MG/L	0.40 0.30	UNITS MG/L MG/L	
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE	DATE 03/23/2004 04/20/2004 04/20/2004	TIME 11:17:00 10:45:00 11:00:00	10 10 10 30	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.20	QUAL <	UNITS MG/L MG/L MG/L	0.40 0.30 0.30	UNITS MG/L MG/L MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004 04/20/2004 05/18/2004	TIME 11:17:00 10:45:00 11:00:00 11:00:00	10 10 10 30 70	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.20 0.20 0.05	QUAL < <	UNITS MG/L MG/L MG/L MG/L	0.40 0.30 0.30 0.50	UNITS MG/L MG/L MG/L MG/L	
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE	DATE 03/23/2004 04/20/2004 04/20/2004	TIME 11:17:00 10:45:00 11:00:00	10 10 30 70 20	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.20	QUAL < < <	UNITS MG/L MG/L MG/L MG/L MG/L	0.40 0.30 0.30	UNITS MG/L MG/L MG/L MG/L MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004 04/20/2004 05/18/2004	TIME 11:17:00 10:45:00 11:00:00 11:00:00	10 10 10 30 70	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.20 0.20 0.05	QUAL  <  <  <  <  <  <  <  <  <  <  <  <  <	UNITS MG/L MG/L MG/L MG/L	0.40 0.30 0.30 0.50	UNITS MG/L MG/L MG/L MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004 04/20/2004 05/18/2004 06/15/2004	TIME 11:17:00 10:45:00 11:00:00 11:00:00 11:00:00	10 10 30 70 20	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.20 0.05 0.05	QUAL  <  <  <  <  <  <  <  <  <  <  <  <  <	UNITS MG/L MG/L MG/L MG/L MG/L	0.40 0.30 0.30 0.50 0.50	UNITS MG/L MG/L MG/L MG/L MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004 04/20/2004 05/18/2004 06/15/2004 07/20/2004	TIME  11:17:00 10:45:00 11:00:00 11:00:00 11:00:00 10:55:00	RESULTS  10 10 30 70 20 550	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.20 0.05 0.05 0.05	QUAL	UNITS  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L	0.40 0.30 0.30 0.50 0.50 0.60	UNITS  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE	DATE  03/23/2004  04/20/2004  04/20/2004  05/18/2004  06/15/2004  07/20/2004  08/11/2004	TIME 11:17:00 10:45:00 11:00:00 11:00:00 11:00:00 10:55:00 11:00:00	RESULTS  10 10 30 70 20 550 20	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.20 0.05 0.05 0.06 0.05	QUAL	UNITS  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L	0.40 0.30 0.30 0.50 0.50 0.60 0.50	UNITS  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE	DATE  03/23/2004  04/20/2004  04/20/2004  05/18/2004  06/15/2004  07/20/2004  08/11/2004  09/22/2004	TIME  11:17:00  10:45:00  11:00:00  11:00:00  10:55:00  10:55:00  10:55:00	10 10 30 70 20 550 20 120	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.20 0.05 0.05 0.06 0.05 0.05	QUAL	UNITS  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L	0.40 0.30 0.30 0.50 0.50 0.60 0.60	UNITS  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L	

ROUTINE SAMPLE	12/08/2004	09:32:00	120		CTS/100ML	0.05	<	MG/L	0.40	MG/L	
ACTIVITY	START	START	NO2NO3	NO2NO3	NO2NO3	PH	PH	Р	Р	COND	COND
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/23/2004	11:17:00	0.24		MG/L	6.99	UNITS	0.0230	MG/L	96.70	UMHOS/CM
ROUTINE SAMPLE	04/20/2004	10:45:00	0.06		MG/L	6.95	UNITS	0.0080	MG/L	117.50	UMHOS/CM
FIELD DUPLICATE	04/20/2004	11:00:00	0.06		MG/L	6.88	UNITS	0.0140	MG/L	117	UMHOS/CM
ROUTINE SAMPLE	05/18/2004	11:00:00	0.11		MG/L	6.42	UNITS	0.0260	MG/L	181.10	UMHOS/CM
ROUTINE SAMPLE	06/15/2004	11:00:00	0.14		MG/L	6.79	UNITS	0.0330	MG/L	166.40	UMHOS/CM
ROUTINE SAMPLE	07/20/2004	10:55:00	0.14		MG/L	6.63	UNITS	0.0450	MG/L	201.20	UMHOS/CM
ROUTINE SAMPLE	08/11/2004	11:00:00	0.05	<	MG/L	7.01	UNITS	0.0710	MG/L	211.50	UMHOS/CM
ROUTINE SAMPLE	09/22/2004	10:55:00	0.06		MG/L	6.71	UNITS	0.0330	MG/L	143.10	UMHOS/CM
ROUTINE SAMPLE	09/27/2004	11:08:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE	10/21/2004	12:00:00	80.0		MG/L	6.09	UNITS	0.0320	MG/L	178.50	UMHOS/CM
ROUTINE SAMPLE	11/17/2004	11:48:00	nd		MG/L	7.02	UNITS	0.0210	MG/L	187.60	UMHOS/CM
ROUTINE SAMPLE	12/08/2004	09:32:00	0.10		MG/L	6.7	UNITS	0.0190	MG/L	99.90	UMHOS/CM
			TEMP	TEMP	TSS	TSS	TSS	TURB	TURB	WEATHER C	OMMENTS
ACTIVITY	START	START									OMMENTS
CATEGORY	DATE	TIME	RESULTS	UNITS	RESULTS	TSS QUAL	UNITS	RESULTS	UNITS	RESULTS	
CATEGORY ROUTINE SAMPLE	DATE 03/23/2004	TIME 11:17:00	RESULTS 1.10	UNITS DEG C	RESULTS 2		UNITS MG/L	RESULTS 3.20	UNITS NTU	RESULTS CLEAR, BRE	EZY, 40'S
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004	TIME 11:17:00 10:45:00	RESULTS 1.10 14.80	UNITS DEG C DEG C	RESULTS 2 3.50		UNITS MG/L MG/L	3.20 1.60	UNITS NTU NTU	RESULTS CLEAR, BRE	EZY, 40'S
CATEGORY ROUTINE SAMPLE	DATE 03/23/2004	TIME 11:17:00	RESULTS 1.10	UNITS DEG C	RESULTS 2		UNITS MG/L	RESULTS 3.20	UNITS NTU	RESULTS CLEAR, BRE	EZY, 40'S
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004	TIME 11:17:00 10:45:00	RESULTS 1.10 14.80	UNITS DEG C DEG C	RESULTS 2 3.50		UNITS MG/L MG/L	3.20 1.60	UNITS NTU NTU	RESULTS  CLEAR, BRE CLEAR, BRE CLEAR, BRE	EZY, 40'S EZY, 50'S EZY, 50'S
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE	DATE 03/23/2004 04/20/2004 04/20/2004	TIME 11:17:00 10:45:00 11:00:00	1.10 14.80 14.80	UNITS DEG C DEG C DEG C	2 3.50 2.50	QUAL	UNITS MG/L MG/L MG/L	3.20 1.60 1.60	UNITS NTU NTU NTU	RESULTS  CLEAR, BRE CLEAR, BRE CLEAR, BRE CLOUDY W/ MITTENT RA	EZY, 40'S EZY, 50'S EZY, 50'S
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004	TIME 11:17:00 10:45:00	RESULTS 1.10 14.80	UNITS DEG C DEG C	RESULTS 2 3.50		UNITS MG/L MG/L	3.20 1.60	UNITS NTU NTU	RESULTS  CLEAR, BRE CLEAR, BRE CLEAR, BRE CLOUDY W/ MITTENT RA 70'S	EZY, 40'S EZY, 50'S EZY, 50'S NTER- NN, BREEZY,
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE  ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004 04/20/2004 05/18/2004	TIME 11:17:00 10:45:00 11:00:00	1.10 14.80 14.80 19.20	UNITS  DEG C  DEG C  DEG C	2 3.50 2.50	QUAL <	UNITS  MG/L  MG/L  MG/L  MG/L	3.20 1.60 1.60 2.20	UNITS  NTU  NTU  NTU  NTU	RESULTS  CLEAR, BRE CLEAR, BRE CLEAR, BRE CLOUDY W/ MITTENT RA 70'S  CLOUDY W/	EEZY, 40'S EEZY, 50'S EZY, 50'S EZY, 50'S INTER-
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE	DATE 03/23/2004 04/20/2004 04/20/2004	TIME 11:17:00 10:45:00 11:00:00	1.10 14.80 14.80	UNITS DEG C DEG C DEG C	2 3.50 2.50	QUAL	UNITS MG/L MG/L MG/L	3.20 1.60 1.60	UNITS NTU NTU NTU	RESULTS  CLEAR, BRE CLEAR, BRE CLEAR, BRE CLOUDY W/ MITTENT RA 70'S	EEZY, 40'S EEZY, 50'S EZY, 50'S EZY, 50'S INTER-
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE  ROUTINE SAMPLE	DATE 03/23/2004 04/20/2004 04/20/2004 05/18/2004	TIME 11:17:00 10:45:00 11:00:00	1.10 14.80 14.80 19.20	UNITS  DEG C  DEG C  DEG C	2 3.50 2.50	QUAL <	UNITS  MG/L  MG/L  MG/L  MG/L	3.20 1.60 1.60 2.20	UNITS  NTU  NTU  NTU  NTU	RESULTS  CLEAR, BRE CLEAR, BRE CLEAR, BRE CLOUDY W/ MITTENT RA 70'S  CLOUDY W/	EZY, 40'S EZY, 50'S EZY, 50'S EZY, 50'S INTER- IN, BREEZY, O RAIN, EGREES F
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE  ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE	DATE  03/23/2004 04/20/2004 04/20/2004  05/18/2004  06/15/2004  07/20/2004	TIME  11:17:00 10:45:00 11:00:00  11:00:00  11:00:00  10:55:00	1.10 14.80 14.80 19.20 22.50 23.90	DEG C DEG C DEG C DEG C DEG C	2 3.50 2.50 1 1 5	QUAL < <	MG/L MG/L MG/L MG/L MG/L MG/L	3.20 1.60 1.60 2.20 4.80 4.20	UNITS  NTU  NTU  NTU  NTU  NTU  NTU	RESULTS  CLEAR, BRE CLEAR, BRE CLEAR, BRE CLOUDY W/ MITTENT RA 70'S  CLOUDY W/ CALM, 80 DE CLOUDY W/ CALM, 80 DE CLOUDY W/	EZY, 40'S EZY, 50'S EZY, 50'S EZY, 50'S INTER- NIN, BREEZY, O RAIN, EGREES F O RAIN, EGREES F
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE  ROUTINE SAMPLE ROUTINE SAMPLE	DATE  03/23/2004 04/20/2004 04/20/2004  05/18/2004  06/15/2004	TIME  11:17:00  10:45:00  11:00:00  11:00:00	1.10 14.80 14.80 19.20 22.50	UNITS  DEG C  DEG C  DEG C  DEG C	2 3.50 2.50	QUAL < <	MG/L MG/L MG/L MG/L MG/L	3.20 1.60 1.60 2.20 4.80	UNITS  NTU  NTU  NTU  NTU  NTU	RESULTS  CLEAR, BRE CLEAR, BRE CLEAR, BRE CLOUDY W/ MITTENT RA 70'S  CLOUDY W/ CALM, 80 DE CLOUDY W/ CALM, 80 DE	EZY, 40'S EZY, 50'S EZY, 50'S EZY, 50'S INTER- NIN, BREEZY, O RAIN, EGREES F O RAIN, EGREES F
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE  ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE	DATE  03/23/2004 04/20/2004 04/20/2004  05/18/2004  06/15/2004  07/20/2004  08/11/2004	TIME  11:17:00 10:45:00 11:00:00  11:00:00  10:55:00 11:00:00	1.10 14.80 14.80 19.20 22.50 23.90 24.40	DEG C DEG C DEG C DEG C DEG C DEG C	2 3.50 2.50 1 1 5	QUAL  <  <  <  <  <  <   <	MG/L MG/L MG/L MG/L MG/L MG/L MG/L	3.20 1.60 1.60 2.20 4.80 4.20 2.20	NTU NTU NTU NTU NTU NTU NTU NTU	RESULTS  CLEAR, BRE CLEAR, BRE CLEAR, BRE CLOUDY W/ MITTENT RA 70'S  CLOUDY W/ CALM, 80 DE CLOUDY W/ CALM, 80 DE CLOUDY W/ BREEZE, 80 CLEAR, CAL	EZY, 40'S EZY, 50'S EZY, 50'S EZY, 50'S INTER- IN, BREEZY, O RAIN, EGREES F O RAIN, EGREES F O RAIN, S M, 70
CATEGORY ROUTINE SAMPLE ROUTINE SAMPLE FIELD DUPLICATE  ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE	DATE  03/23/2004 04/20/2004 04/20/2004  05/18/2004  06/15/2004  07/20/2004	TIME  11:17:00 10:45:00 11:00:00  11:00:00  11:00:00  10:55:00	1.10 14.80 14.80 19.20 22.50 23.90	DEG C DEG C DEG C DEG C DEG C	2 3.50 2.50 1 1 5	QUAL < <	MG/L MG/L MG/L MG/L MG/L MG/L	3.20 1.60 1.60 2.20 4.80 4.20	UNITS  NTU  NTU  NTU  NTU  NTU  NTU	RESULTS  CLEAR, BRE CLEAR, BRE CLEAR, BRE CLOUDY W/ MITTENT RA 70'S  CLOUDY W/ CALM, 80 DE CLOUDY W/ CALM, 80 DE CLOUDY W/ BREEZE, 80	EZY, 40'S EZY, 50'S EZY, 50'S EZY, 50'S INTER- IN, BREEZY, O RAIN, EGREES F O RAIN, EGREES F O RAIN, S M, 70

ROUTINE SAMPLE	09/27/2004	11:08:00	17.90	DEG C	nd		MG/L	nd	NTU	CLEAR, CALM, 70 DEGREES F
ROUTINE SAMPLE	10/21/2004	12:00:00	10	DEG C	7		MG/L	3.20	NTU	CLOUDY W/O RAIN, CALM, 40S
ROUTINE SAMPLE	11/17/2004	11:48:00	4.20	DEG C	5	<	MG/L	3.10	NTU	CLEAR, CALM, 50S
ROUTINE SAMPLE	12/08/2004	09:32:00	1.10	DEG C	5	<	MG/L	2.90	NTU	CLOUDY W/O RAIN

#### Legend

BOD BIOCHEMICAL OXYGEN DEMAND

CHL CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN

DO DISSOLVED OXYGEN

DISSOLVED OXYGEN

DO SAT SATURATION

DELETED LAB ACCIDENT

EC ESCHERICHIA COLI

NITR NITROGEN AMMONIA

TKN NITROGEN KJELDAHL

nd NO SAMPLE COLLECTED OR NO MEASUREMENT MADE

NO2NO3 NITROGEN NITRATE + NITRITE

P PHOSPHORUS AS P

QUAL QUALIFIER

COND SPECIFIC CONDUCTANCE

**TEMPERATURE** 

TEMP WATER

TSS TOTAL SUSPENDED SOLIDS

TURB TURBIDITY

# Lamprey River at Rt. 108 Bridge, Newmarket, 05-LMP Note: Data not meeting RPD are shaded.

			BOD	BOD	BOD	CHL	CHL	DO	DO	DO SAT	DO SAT
ACTIVITY	START	START									
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	09:50:00	2.40	<	MG/L	1.26	UG/L	14.57	MG/L	100.60	%
ROUTINE SAMPLE	04/22/2004	09:14:00	2.40	<	MG/L	3.11	UG/L	10.27	MG/L	97.60	%
ROUTINE SAMPLE	05/19/2004	09:27:00	2.40	<	MG/L	3.25	UG/L	8.64	MG/L	93.30	%
ROUTINE SAMPLE	06/15/2004	11:37:00	2.40	<	MG/L	7.28	UG/L	8.93	MG/L	105.60	%
ROUTINE SAMPLE	07/20/2004	11:30:00	2.40	<	MG/L	10.90	UG/L	8.65	MG/L	102.70	%
ROUTINE SAMPLE	08/11/2004	11:40:00	2.40	<	MG/L	6.02	UG/L	8.42	MG/L	99.20	%
ROUTINE SAMPLE	09/23/2004	09:20:00	2	<	MG/L	nd	UG/L	9.02	MG/L	92.90	%
ROUTINE SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	1.75	UG/L	10.24	MG/L	91.30	%
ROUTINE SAMPLE	11/18/2004	11:24:00	2.40	<	MG/L	1.61	UG/L	12.86	MG/L	97.40	%
ROUTINE SAMPLE	12/08/2004	10:06:00	3		MG/L	1.47	UG/L	13.51	MG/L	95.50	%

			EC	EC	EC	NITR	NITR	NITR	TKN	TKN
ACTIVITY CATEGORY	START DATE	START TIME	RESULTS	QUAL	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	09:50:00	10	Q0/12	CTS/100ML	0.05	<	MG/L	0.30	MG/L
ROUTINE SAMPLE	04/22/2004	09:14:00	10	<	CTS/100ML	0.20	<	MG/L	0.30	MG/L
ROUTINE SAMPLE	05/19/2004	09:27:00	80		CTS/100ML	0.05	<	MG/L	0.30	MG/L
ROUTINE SAMPLE	06/15/2004	11:37:00	5		CTS/100ML	0.05	<	MG/L	0.80	MG/L
ROUTINE SAMPLE	07/20/2004	11:30:00	10	<	CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	08/11/2004	11:40:00	5		CTS/100ML	0.05	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	09/23/2004	09:20:00	50		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	10/21/2004	12:00:00	10		CTS/100ML	0.05	<	MG/L	0.50	MG/L
ROUTINE SAMPLE	11/18/2004	11:24:00	20		CTS/100ML	0.10	<	MG/L	0.40	MG/L
ROUTINE SAMPLE	12/08/2004	10:06:00	10	<	CTS/100ML	0.05	<	MG/L	0.40	MG/L

			NO2NO3	NO2NO3	NO2NO3	PH	PH	Р	Р	COND	COND
ACTIVITY	START	START	550111.70	01141		DE01 II TO		550111.70		DE01 II TO	
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	09:50:00	0.22		MG/L	5.60	UNITS	0.02	MG/L	85	UMHOS/CM
ROUTINE SAMPLE	04/22/2004	09:14:00	0.09		MG/L	5.76	UNITS	0.0150	MG/L	92.40	UMHOS/CM
ROUTINE SAMPLE	05/19/2004	09:27:00	0.09		MG/L	5.97	UNITS	0.0160	MG/L	132.70	UMHOS/CM
ROUTINE SAMPLE	06/15/2004	11:37:00	0.10		MG/L	6.83	UNITS	0.02	MG/L	138.60	UMHOS/CM
ROUTINE SAMPLE	07/20/2004	11:30:00	0.16		MG/L	6.69	UNITS	0.0260	MG/L	192.60	UMHOS/CM
ROUTINE SAMPLE	08/11/2004	11:40:00	0.05	<	MG/L	7.02	UNITS	0.0250	MG/L	185.50	UMHOS/CM
<b>ROUTINE SAMPLE</b>	09/23/2004	09:20:00	0.06		MG/L	5.81	UNITS	0.0220	MG/L	124.20	UMHOS/CM
<b>ROUTINE SAMPLE</b>	10/21/2004	12:00:00	0.10		MG/L	6.68	UNITS	0.0160	MG/L	150.30	UMHOS/CM
<b>ROUTINE SAMPLE</b>	11/18/2004	11:24:00	0.11		MG/L	6.66	UNITS	0.0220	MG/L	124.90	UMHOS/CM
<b>ROUTINE SAMPLE</b>	12/08/2004	10:06:00	0.10		MG/L	6.8	UNITS	0.0130	MG/L	57.80	UMHOS/CM
			TEMP	TEMP	TSS	TSS	TSS	TURB	TURB	WEATHER C	COMMENTS
ACTIVITY CATEGORY	START	START									
	DATE	-	DECLUTO	LINITO	DECLUTO	OLIAI	LINITO	DECLUTO	LINITO	DEOU! TO	
	DATE	TIME	RESULTS	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	
ROUTINE SAMPLE	DATE 03/24/2004	-	RESULTS 2.20	UNITS DEG C	RESULTS 3	QUAL	UNITS MG/L	RESULTS 2.20	UNITS NTU	RESULTS CLEAR, BRE	
		TIME				QUAL					EZY, 40'S
ROUTINE SAMPLE ROUTINE SAMPLE	03/24/2004	TIME 09:50:00 09:14:00	2.20	DEG C	3		MG/L	2.20	NTU NTU	CLEAR, BRE CLOUDY W/ 60'S CLOUDY W/	EZY, 40'S RAIN, CALM,
ROUTINE SAMPLE	03/24/2004	TIME 09:50:00	2.20	DEG C	3	QUAL <	MG/L	2.20	NTU	CLEAR, BRE CLOUDY W/ 60'S	EZY, 40'S RAIN, CALM,
ROUTINE SAMPLE ROUTINE SAMPLE	03/24/2004	TIME 09:50:00 09:14:00	2.20	DEG C	3		MG/L	2.20	NTU NTU	CLEAR, BRE CLOUDY W/ 60'S CLOUDY W/	EZY, 40'S RAIN, CALM, O RAIN, O RAIN,

7

5

5

5

5

NTU

NTU

NTU

NTU

NTU

CLOUDY W/O RAIN,

CLOUDY W/O RAIN,

CLOUDY W/O RAIN,

CLOUDY W/O RAIN,

WIND, 80S

CALM, 50S

CALM, 50S

CALM, 30S

CLEAR, SUNNY

MG/L

MG/L

MG/L

MG/L

MG/L

<

<

<

<

1.60

2.40

1.20

1.80

1.90

**ROUTINE SAMPLE** 

**ROUTINE SAMPLE** 

**ROUTINE SAMPLE** 

**ROUTINE SAMPLE** 

**ROUTINE SAMPLE** 

08/11/2004

09/23/2004

10/21/2004

11/18/2004

12/08/2004

11:40:00

09:20:00

12:00:00

11:24:00

10:06:00

23.60

16.50

10.30

3.70

1.20

DEG C

DEG C

DEG C

DEG C

DEG C

LEDGEND			
BOD	BIOCHEMICAL OXYGEN DEMAND	TSS	TOTAL SUSPENDED SOLIDS
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN	TURB	TURBIDITY
DO	DISSOLVED OXYGEN		
DO SAT	DISSOLVED OXYGEN SATURATION		
DELETED	LAB ACCIDENT		
EC	ESCHERICHIA COLI		
NITR	NITROGEN AMMONIA		
TKN	NITROGEN KJELDAHL		
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE		
NO2NO3	NITROGEN NITRATE + NITRITE		
P	PHOSPHORUS AS P		
QUAL	QUALIFIER		
COND	SPECIFIC CONDUCTANCE		
TEMP	TEMPERATURE WATER		

## Oyster River at the Rt. 108 Bridge and Mill Pond, Durham, 05-OYS Note: Data not meeting RPD are shaded.

	_		BOD	BOD	BOD	CHL	CHL	DO	DO	DO SAT	DO SAT
ACTIVITY	START	START	DE0111 T0	01141	LINUTO	DE0111 T0	LINUTO	DE0111 TO	LINUTO	DE0111 T0	LINUTO
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	10:22:00	2.40	<	MG/L	1.26	UG/L	13.06	MG/L	93.20	%
ROUTINE SAMPLE	04/22/2004	09:41:00	2.40	<	MG/L	2.73	UG/L	9.72	MG/L	91.20	%
ROUTINE SAMPLE	05/19/2004	09:51:00	2.40	<	MG/L	5.45	UG/L	8.25	MG/L	88.10	%
ROUTINE SAMPLE	06/16/2004	09:20:00	2.40	<	MG/L	7.63	UG/L	8.59	MG/L	97.80	%
FIELD DUPLICATE	07/22/2004	09:45:00	2.50		MG/L	9.27	UG/L	8.43	MG/L	99.60	%
ROUTINE SAMPLE	07/22/2004	09:45:00	2.40	<	MG/L	7.94	UG/L	8.74	MG/L	103	%
ROUTINE SAMPLE	08/10/2004	10:30:00	3.60		MG/L	33.55	UG/L	8.56	MG/L	99	%
FIELD DUPLICATE	08/10/2004	10:42:00	2.40	<	MG/L	9.29	UG/L	10.61	MG/L	125.40	%
ROUTINE SAMPLE	08/20/2004	09:45:00	nd		MG/L	nd	UG/L	8.35	MG/L	93.70	%
FIELD DUPLICATE	08/20/2004	09:56:00	nd		MG/L	nd	UG/L	8.42	MG/L	96.10	%

ROUTINE SAMPLE	09/23/2004	09:50:00	2	<	MG/L	nd	UG/L	8.52	MG/L	89.70	%
ROUTINE SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	3.44	UG/L	8.83	MG/L	77	%
FIELD DUPLICATE	10/21/2004	12:00:00	2.40	<	MG/L	3.06	UG/L	8.67	MG/L	75.70	%
ROUTINE SAMPLE	11/18/2004	10:54:00	2.40	<	MG/L	1.61	UG/L	12.12	MG/L	91.80	%
ROUTINE SAMPLE	12/08/2004	10:33:00	2.60		MG/L	1.45	UG/L	12.80	MG/L	90.60	%
			EC	EC	EC	NITR	NITR	NITR	TKN	TKN	
ACTIVITY	START	START	DE0111 T0	01141		DE01 II T0	01141		DE0111 TO		
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	
ROUTINE SAMPLE	03/24/2004	10:22:00	5		CTS/100ML	0.09		MG/L	0.40	MG/L	
ROUTINE SAMPLE	04/22/2004	09:41:00	50		CTS/100ML	0.20	<	MG/L	0.40	MG/L	
ROUTINE SAMPLE	05/19/2004	09:51:00	270		CTS/100ML	0.05	<	MG/L	0.60	MG/L	
ROUTINE SAMPLE	06/16/2004	09:20:00	50		CTS/100ML	0.05	<	MG/L	0.50	MG/L	
FIELD DUPLICATE	07/22/2004	09:45:00	270		CTS/100ML	0.05	<	MG/L	0.50	MG/L	
ROUTINE SAMPLE	07/22/2004	09:45:00	90		CTS/100ML	0.05	<	MG/L	0.40	MG/L	
ROUTINE SAMPLE	08/10/2004	10:30:00	10		CTS/100ML	0.05	<	MG/L	0.70	MG/L	
FIELD DUPLICATE	08/10/2004	10:42:00	10	<	CTS/100ML	0.05	<	MG/L	0.60	MG/L	
<b>ROUTINE SAMPLE</b>	08/20/2004	09:45:00	nd		CTS/100ML	nd		MG/L	nd	MG/L	
FIELD DUPLICATE	08/20/2004	09:56:00	nd		CTS/100ML	nd		MG/L	nd	MG/L	
<b>ROUTINE SAMPLE</b>	09/23/2004	09:50:00	50		CTS/100ML	0.05	<	MG/L	0.80	MG/L	
ROUTINE SAMPLE	10/21/2004	12:00:00	80		CTS/100ML	0.05	<	MG/L	0.60	MG/L	
FIELD DUPLICATE	10/21/2004	12:00:00	20		CTS/100ML	0.05		MG/L	0.60	MG/L	
ROUTINE SAMPLE	11/18/2004	10:54:00	10	<	CTS/100ML	0.10	<	MG/L	0.30	MG/L	
ROUTINE SAMPLE	12/08/2004	10:33:00	60		CTS/100ML	0.05	<	MG/L	0.50	MG/L	
			NO2NO3	NO2NO3	NO2NO3	PH	PH	Р	Р	COND	COND
ACTIVITY	START	START									
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	10:22:00	0.37		MG/L	5.87	UNITS	0.0380	MG/L	103.90	UMHOS/CM
ROUTINE SAMPLE	04/22/2004	09:41:00	0.14		MG/L	5.98	UNITS	0.0280	MG/L	132.37	UMHOS/CM
ROUTINE SAMPLE	05/19/2004	09:51:00	0.16		MG/L	7.29	UNITS	0.0280	MG/L	183	UMHOS/CM
ROUTINE SAMPLE	06/16/2004	09:20:00	0.23		MG/L	6	UNITS	0.0320	MG/L	208.30	UMHOS/CM
FIELD DUPLICATE	07/22/2004	09:45:00	0.23		MG/L	6.30	UNITS	0.0370	MG/L	257.20	UMHOS/CM
ROUTINE SAMPLE	07/22/2004	09:45:00	0.19		MG/L	6.21	UNITS	0.0360	MG/L	255.30	UMHOS/CM
ROUTINE SAMPLE	08/10/2004	10:30:00	0.05	<	MG/L	6.79	UNITS	0.0340	MG/L	345.10	UMHOS/CM

FIELD DUPLICATE	08/10/2004	10:42:00	0.05	<	MG/L	7.07	UNITS	0.0270	MG/L	334.20	UMHOS/CM
ROUTINE SAMPLE FIELD DUPLICATE	08/20/2004 08/20/2004	09:45:00 09:56:00	nd nd		MG/L MG/L	nd nd	UNITS UNITS	nd nd	MG/L MG/L	nd nd	UMHOS/CM UMHOS/CM
ROUTINE SAMPLE	09/23/2004	09:50:00	0.25		MG/L	6.55	UNITS	0.0550	MG/L	170.70	UMHOS/CM
ROUTINE SAMPLE	10/21/2004	12:00:00	0.21		MG/L	6.53	UNITS	0.0330	MG/L	198.70	UMHOS/CM
FIELD DUPLICATE	10/21/2004	12:00:00	0.21		MG/L	6.48	UNITS	0.0350	MG/L	198.60	UMHOS/CM
ROUTINE SAMPLE	11/18/2004	10:54:00	0.29		MG/L	6.49	UNITS	0.0150	MG/L	193.30	UMHOS/CM
ROUTINE SAMPLE	12/08/2004	10:33:00	0.28		MG/L	6.7	UNITS	0.0220	MG/L	180.50	UMHOS/CM
			TEMP	TEMP	TSS	TSS	TSS	TURB	TURB	WEATHER (	COMMENTS
ACTIVITY CATEGORY	START DATE	START TIME	RESULTS	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	
ROUTINE SAMPLE	03/24/2004	10:22:00	1.60	DEG C	7.50		MG/L	9.10	NTU	CLEAR, BRI	EEZY, 40'S
ROUTINE SAMPLE	04/22/2004	09:41:00	12.50	DEG C	5.50		MG/L	6.90	NTU	CLOUDY WAR MITTENT RA 60'S	
ROUTINE SAMPLE	05/19/2004	09:51:00	18.40	DEG C	4.50		MG/L	8.90	NTU	CLOUDY WAR	
ROUTINE SAMPLE	06/16/2004	09:20:00	21.90	DEG C	5	<	MG/L	3.70	NTU	CLEAR, BRE DEGREES F	
FIELD DUPLICATE	07/22/2004	09:45:00	23.60	DEG C	5	<	MG/L	5.90	NTU	CLEAR, CAL DEGREES F	
ROUTINE SAMPLE	07/22/2004	09:45:00	23.40	DEG C	5.50		MG/L	6.10	NTU	CLEAR, CAI DEGREES F	
ROUTINE SAMPLE	08/10/2004	10:30:00	22.40	DEG C	5	<	MG/L	3.10	NTU	CLEAR, CAI DEGREES F	
FIELD DUPLICATE	08/10/2004	10:42:00	23.60	DEG C	5	<	MG/L	2.70	NTU	CLEAR, CAI DEGREES F	
ROUTINE SAMPLE	08/20/2004	09:45:00	21	DEG C	nd		MG/L	nd	NTU	CLOUDY WAR	
FIELD DUPLICATE	08/20/2004	09:56:00	21.90	DEG C	nd		MG/L	nd	NTU	CLOUDY WAR	
ROUTINE SAMPLE	09/23/2004	09:50:00	17.70	DEG C	5 26	<	MG/L	4.90	NTU	SUNNY, CLI	EAR

ROUTINE SAMPLE	10/21/2004	12:00:00	9.30	DEG C	5.50		MG/L	4.80	NTU	CLOUDY W/O RAIN, BREEZE, 50S
FIELD DUPLICATE	10/21/2004	12:00:00	9.40	DEG C	5	<	MG/L	4.50	NTU	CLOUDY W/O RAIN, BREEZE, 50S
ROUTINE SAMPLE	11/18/2004	10:54:00	3.70	DEG C	5	<	MG/L	3.10	NTU	CLOUDY W/O RAIN, CALM, 50S
ROUTINE SAMPLE	12/08/2004	10:33:00	1.30	DEG C	6		MG/L	4.80	NTU	PARTLY CLOUDY & SUNNY W/O RAIN

### Legend

BOD BIOCHEMICAL OXYGEN DEMAND

CHL CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN

dl DATA LOST

DO DISSOLVED OXYGEN

DO SAT DISSOLVED OXYGEN SATURATION

DELETED LAB ACCIDENT
EC ESCHERICHIA COLI
NITR NITROGEN AMMONIA
TKN NITROGEN KJELDAHL

na ANAYSES NOT YET COMPLETED BY LAB

nd NO SAMPLE COLLECTED OR NO MEASUREMENT MADE

NO2NO3 NITROGEN NITRATE + NITRITE

P PHOSPHORUS AS P

QUAL QUALIFIER

COND SPECIFIC CONDUCTANCE
TEMP TEMPERATURE WATER
TSS TOTAL SUSPENDED SOLIDS

TURB TURBIDITY

# Bellamy River at Rt. 108 Bridge, Dover, 05-BLM Note: Data not meeting RPD are shaded.

			BOD	BOD	BOD	CHL	CHL	DO	DO	DO SAT	DO SAT
ACTIVITY CATEGORY	START DATE	START TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	10:47:00	2.40	QUAL <	MG/L	2.89	UG/L	12.80	MG/L	97.20	%
ROUTINE SAMPLE	04/22/2004	10:47:00	2.40	<	MG/L	3.48	UG/L	10.70	MG/L	99.50	%
ROUTINE SAMPLE	05/19/2004	10:00:00	2.40	<	MG/L	6	UG/L	8.67	MG/L	94.40	%
ROUTINE SAMPLE	06/16/2004	09:20:00	2.40	<	MG/L	5.77	UG/L	8.39	MG/L	100	%
ROUTINE SAMPLE	07/22/2004	10:34:00	2.40	<	MG/L	6.66	UG/L	8.53	MG/L	103.70	%
ROUTINE SAMPLE	08/10/2004	10:05:00	2.40	<	MG/L	6.52	UG/L	7.76	MG/L	92.30	%
ROUTINE SAMPLE	08/20/2004	10:10:00	nd		MG/L	nd	UG/L	9.47	MG/L	113.20	%
ROUTINE SAMPLE	09/23/2004	10:20:00	2	<	MG/L	nd	UG/L	8.35	MG/L	90.30	%
ROUTINE SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	2.67	UG/L	9.64	MG/L	85.40	%
ROUTINE SAMPLE	11/18/2004	10:21:00	2.40	<	MG/L	2.35	UG/L	12.29	MG/L	96.10	%
ROUTINE SAMPLE	12/08/2004	10:57:00	2.90		MG/L	3.08	UG/L	12.88	MG/L	93.70	%
						0.00	0 0, =				, ,
			EC	EC	EC	NITR	NITR	NITR	TKN	TKN	
ACTIVITY	START	START	EC	EC	EC	NITR	NITR	NITR	TKN	TKN	
ACTIVITY CATEGORY	START DATE	START TIME	EC RESULTS	EC QUAL	EC UNITS	NITR RESULTS	NITR QUAL	NITR UNITS	TKN RESULTS	UNITS	
-	-	_								UNITS MG/L	
CATEGORY	DATE	TIME	RESULTS		UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS MG/L MG/L	
CATEGORY ROUTINE SAMPLE	DATE 03/24/2004	TIME 10:47:00	RESULTS 10	QUAL	UNITS CTS/100ML	RESULTS 0.05	QUAL <	UNITS MG/L	RESULTS 0.40	UNITS MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/24/2004 04/22/2004	TIME 10:47:00 10:08:00	RESULTS 10 10	QUAL	UNITS CTS/100ML CTS/100ML	0.05 0.20	QUAL < <	UNITS MG/L MG/L	0.40 0.30	UNITS MG/L MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/24/2004 04/22/2004 05/19/2004	TIME 10:47:00 10:08:00 10:13:00	RESULTS 10 10 800	QUAL	UNITS CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.05	QUAL < < <	UNITS MG/L MG/L MG/L	0.40 0.30 0.60	UNITS MG/L MG/L MG/L	
CATEGORY  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE  ROUTINE SAMPLE	DATE 03/24/2004 04/22/2004 05/19/2004 06/16/2004	TIME 10:47:00 10:08:00 10:13:00 09:20:00	10 10 800 100	QUAL	UNITS CTS/100ML CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.05 0.05	QUAL < < < <	UNITS MG/L MG/L MG/L MG/L	0.40 0.30 0.60 0.50	UNITS MG/L MG/L MG/L MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/24/2004 04/22/2004 05/19/2004 06/16/2004 07/22/2004	TIME 10:47:00 10:08:00 10:13:00 09:20:00 10:34:00	10 10 800 100 20	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.05 0.05 0.05	QUAL	UNITS MG/L MG/L MG/L MG/L MG/L	0.40 0.30 0.60 0.50 0.50	UNITS MG/L MG/L MG/L MG/L MG/L	
CATEGORY  ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE ROUTINE SAMPLE	DATE 03/24/2004 04/22/2004 05/19/2004 06/16/2004 07/22/2004 08/10/2004	TIME 10:47:00 10:08:00 10:13:00 09:20:00 10:34:00 10:05:00	10 10 800 100 20 10	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.05 0.05 0.05 0.05 0.05	QUAL	UNITS MG/L MG/L MG/L MG/L MG/L MG/L	0.40 0.30 0.60 0.50 0.50 0.40	UNITS MG/L MG/L MG/L MG/L MG/L MG/L	
CATEGORY  ROUTINE SAMPLE	DATE 03/24/2004 04/22/2004 05/19/2004 06/16/2004 07/22/2004 08/10/2004 08/20/2004	TIME 10:47:00 10:08:00 10:13:00 09:20:00 10:34:00 10:05:00 10:10:00	10 10 800 100 20 10 nd	QUAL <	UNITS CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML CTS/100ML	0.05 0.20 0.05 0.05 0.05 0.05 0.05 nd	QUAL	UNITS  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L	0.40 0.30 0.60 0.50 0.40 nd	UNITS  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L	
CATEGORY  ROUTINE SAMPLE	DATE 03/24/2004 04/22/2004 05/19/2004 06/16/2004 07/22/2004 08/10/2004 08/20/2004 09/23/2004	TIME 10:47:00 10:08:00 10:13:00 09:20:00 10:34:00 10:05:00 10:10:00 10:20:00	RESULTS  10 10 800 100 20 10 nd 40	QUAL <	UNITS  CTS/100ML  CTS/100ML  CTS/100ML  CTS/100ML  CTS/100ML  CTS/100ML  CTS/100ML  CTS/100ML	0.05 0.20 0.05 0.05 0.05 0.05 0.05 nd 0.05	QUAL	UNITS  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L  MG/L	0.40 0.30 0.60 0.50 0.50 0.40 nd 0.60	UNITS MG/L MG/L MG/L MG/L MG/L MG/L MG/L MG/L	

ACTIVITY	START	START	NO2NO3	NO2NO3	NO2NO3	PH	PH	Р	Р	COND	COND
CATEGORY	DATE	TIME	RESULTS	QUALIFIER	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE	03/24/2004	10:47:00	0.14		MG/L	5.98	UNITS	0.0210	MG/L	83.60	UMHOS/CM
ROUTINE SAMPLE	04/22/2004	10:08:00	0.08		MG/L	6.13	UNITS	0.0180	MG/L	86.20	UMHOS/CM
ROUTINE SAMPLE	05/19/2004	10:13:00	0.07		MG/L	7.32	UNITS	0.0220	MG/L	123.30	UMHOS/CM
ROUTINE SAMPLE	06/16/2004	09:20:00	0.10		MG/L	6.12	UNITS	0.0320	MG/L	119	UMHOS/CM
ROUTINE SAMPLE	07/22/2004	10:34:00	0.05		MG/L	6.41	UNITS	0.0320	MG/L	217.70	UMHOS/CM
ROUTINE SAMPLE	08/10/2004	10:05:00	0.05	<	MG/L	6.54	UNITS	0.0280	MG/L	254	UMHOS/CM
ROUTINE SAMPLE	08/20/2004	10:10:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE	09/23/2004	10:20:00	0.05	<	MG/L	6.70	UNITS	0.0230	MG/L	112	UMHOS/CM
ROUTINE SAMPLE	10/21/2004	12:00:00	0.05	<	MG/L	6.62	UNITS	0.0220	MG/L	115.60	UMHOS/CM
ROUTINE SAMPLE	11/18/2004	10:21:00	0.09		MG/L	6.63	UNITS	0.02	MG/L	131	UMHOS/CM
ROUTINE SAMPLE	12/08/2004	10:57:00	0.10		MG/L	6.9	UNITS	0.0150	MG/L	72.20	UMHOS/CM
ACTIVITY	START	START	TEMP	TEMP	TSS	TSS	TSS	TURB	TURB	WEATHER (	COMMENTS
CATEGORY	DATE	TIME	RESULTS	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	
ROUTINE SAMPLE	03/24/2004	10:47:00	3.90	DEG C	4		MG/L	2.80	NTU	CLEAR, BRE	EZY, 40'S
ROUTINE SAMPLE	04/22/2004	10:08:00	12.10	DEG C	3		MG/L	2.90	NTU	CLOUDY W/ MITTENT RA 60'S	
ROUTINE SAMPLE	05/19/2004	10:13:00	19.60	DEG C	5		MG/L	11	NTU	CLOUDY W/ BREEZY, 70	
ROUTINE SAMPLE	06/16/2004	09:20:00	24.10	DEG C	5	<	MG/L	4.20	NTU	CLEAR, BRE DEGREES F	
ROUTINE SAMPLE	07/22/2004	10:34:00	25.40	DEG C	5	<	MG/L	5.80	NTU	CLEAR, CAL DEGREES F	
ROUTINE SAMPLE	08/10/2004	10:05:00	24.10	DEG C	5	<	MG/L	3.70	NTU	CLEAR, CAL DEGREES F	
ROUTINE SAMPLE	08/20/2004	10:10:00	24.10	DEG C	nd		MG/L	nd	NTU	CLOUDY W/O RAIN, CALM, 70 DEGREES F	
ROUTINE SAMPLE	09/23/2004	10:20:00	19.20	DEG C	5	<	MG/L	4.90	NTU	SUNNY, CLEAR	
ROUTINE SAMPLE	10/21/2004	12:00:00	10	DEG C	6		MG/L	8.20	NTU	CLOUDY W/ BREEZE, 50	

ROUTINE SAMPLE	11/18/2004	10:21:00	4.90	DEG C	5	<	MG/L	3.40	NTU	CLOUDY W/O RAIN, CALM, 50S
ROUTINE SAMPLE	12/08/2004	10:57:00	2.30	DEG C	5	<	MG/L	2	NTU	PARTLY CLOUDY & SUNNY W/O RAIN

Legend	
BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
DO	DISSOLVED OXYGEN DISSOLVED OXYGEN
DO SAT	SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
Р	PHOSPHORUS AS P
QUAL	QUALIFIER
COND	SPECIFIC CONDUCTANCE TEMPERATURE
TEMP	WATER
TSS	TOTAL SUSPENDED SOLIDS
TURB	TURBIDITY

## Cocheco River at the Rt. 9 Bridge (Central Avenue), Dover, 07-CCH Note: Data not meeting RPD are shaded.

ACTIVITY	START	START	BOD	BOD	BOD	CHL	CHL	DO	DO	DO SAT	DO SAT
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE											
SAMPLE	03/24/2004	11:06:00	2.4	<		2.35	UG/L	13.64	MG/L	98.40	%
ROUTINE											
SAMPLE	04/22/2004	11:00:00	2.40	<	MG/L	2.20	UG/L	10.47	MG/L	98.10	%

ROUTINE											
SAMPLE	05/19/2004	11:03:00	2.40	<	MG/L	5.26	UG/L	9.67	MG/L	102.10	%
ROUTINE											
SAMPLE	06/16/2004	10:00:00	2.40	<	MG/L	2.67	UG/L	8.58	MG/L	97.40	%
FIELD DUPLICATE	06/16/2004	10:22:00	2.40	<	MG/L	2.45	UG/L	8.49	MG/L	96.60	%
ROUTINE	00/10/2001	10.22.00	2.10	`	WO/L	2.10	00/2	0.10	WO/L	00.00	70
SAMPLE	07/22/2004	10:55:00	2.40	<	MG/L	4.50	UG/L	9.59	MG/L	115.40	%
ROUTINE	01/22/2001	10.00.00	2.10	`	1110/2	1.00	00,2	0.00	1110/2	110.10	70
SAMPLE	08/10/2004	09:10:00	2.40	<	MG/L	3.79	UG/L	7.74	MG/L	89.60	%
ROUTINE											
SAMPLE	08/20/2004	10:43:00	nd		MG/L	nd	UG/L	9.11	MG/L	104	%
ROUTINE											
SAMPLE	09/23/2004	11:10:00	2	<	MG/L	nd	UG/L	9.79	MG/L	99.70	%
ROUTINE											
SAMPLE	10/21/2004	12:00:00	2.40	<	MG/L	1.40	UG/L	10.81	MG/L	95.10	%
ROUTINE											
SAMPLE	11/18/2004	10:00:00	2.40		MG/L	1.42	UG/L	13.64	MG/L	102	%
ROUTINE											
SAMPLE	12/08/2004	11:42:00	3		MG/L	1.26	UG/L	13.93	MG/L	98.90	%
			EC	EC	EC	NITR	NITR	NITR	TKN	TKN	
ACTIVITY	START	START	20		20	141114	14111	14111	1144	11313	
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	
ROUTINE											
SAMPLE	03/24/2004	11:06:00	10	<	CTS/100ML	0.08		MG/L	0.40	MG/L	
ROUTINE											
SAMPLE	04/22/2004	11:00:00	20		CTS/100ML	0.20	<	MG/L	1.20	MG/L	
ROUTINE											
SAMPLE	05/19/2004	11:03:00	130		CTS/100ML	0.05		MG/L	0.50	MG/L	
ROUTINE											
SAMPLE	06/16/2004	10:00:00	70		CTS/100ML	0.05	<	MG/L	0.50	MG/L	
FIELD DUPLICATE	06/16/2004	10:22:00	50		CTS/100ML	0.05	<	MG/L	0.40	MG/L	
ROUTINE	30, . 0, 200 1	. 000			5 . 5, 100IIIL	0.00	•		3.10		
SAMPLE	07/22/2004	10:55:00	60		CTS/100ML	0.05	<	MG/L	0.40	MG/L	
ROUTINE	,						•				_
SAMPLE	08/10/2004	09:10:00	60		CTS/100ML	0.05	<	MG/L	0.40	MG/L	
ROUTINE											
SAMPLE	08/20/2004	10:43:00	nd		CTS/100ML	nd		MG/L	nd	MG/L	
										-	
ROUTINE											
SAMPLE	09/23/2004	11:10:00	150		CTS/100ML	0.05	<	MG/L	0.40	MG/L	
SAMPLE							<				
	09/23/2004 10/21/2004	11:10:00 12:00:00	150 60		CTS/100ML CTS/100ML	0.05 0.05	<	MG/L MG/L	0.40 0.40	MG/L MG/L	

SAMPLE										
ROUTINE	44/40/0004	40-00-00	40		OTO/400MI	0.40		MO/I	0.00	NAC //
SAMPLE ROUTINE	11/18/2004	10:00:00	10	<	CTS/100ML	0.10	<	MG/L	0.30	MG/L
SAMPLE	12/08/2004	11:42:00	20		CTS/100ML	0.05	<	MG/L	0.30	MG/L
			NOONOO	NOONOO	BU	DU			OOND	COND
ACTIVITY	START	START	NO2NO3	NO2NO3	PH	PH	Р	Р	COND	COND
CATEGORY	DATE	TIME	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE				00		<u> </u>		<u> </u>		55
SAMPLE	03/24/2004	11:06:00	0.80	MG/L	5.90	UNITS	0.0490	MG/L	114.90	UMHOS/CM
ROUTINE										
SAMPLE	04/22/2004	11:00:00	0.37	MG/L	5.92	UNITS	0.03	MG/L	103.80	UMHOS/CM
ROUTINE	05/40/0004	44-00-00	0.00	N40/I	7.00	LINUTO	0.0500	N40/I	100.10	LIMILIOO/OM
SAMPLE ROUTINE	05/19/2004	11:03:00	0.28	MG/L	7.23	UNITS	0.0590	MG/L	122.10	UMHOS/CM
SAMPLE	06/16/2004	10:00:00	0.71	MG/L	6.15	UNITS	0.1070	MG/L	138.50	UMHOS/CM
FIELD DUPLICATE	06/16/2004	10:22:00	0.71	MG/L	6.25	UNITS	0.1030	MG/L	138.80	UMHOS/CM
ROUTINE	00/10/2004	10.22.00	0.71	IVIO/L	0.25	ONTO	0.1000	IVIO/L	130.00	OIVII IOO/OIVI
SAMPLE	07/22/2004	10:55:00	1.29	MG/L	6.53	UNITS	0.1510	MG/L	221.10	UMHOS/CM
ROUTINE										
SAMPLE	08/10/2004	09:10:00	0.98	MG/L	6.35	UNITS	0.1130	MG/L	219	UMHOS/CM
ROUTINE										
SAMPLE	08/20/2004	10:43:00	nd	MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE	00/22/2004	11.10.00	0.22	MG/L	6.70	UNITS	0.0770	MG/L	00.00	LIMILIOS/CM
ROUTINE	09/23/2004	11:10:00	0.32	IVIG/L	6.73	UNITS	0.0770	IVIG/L	99.90	UMHOS/CM
SAMPLE	10/21/2004	12:00:00	0.31	MG/L	6.77	UNITS	0.0450	MG/L	121.30	UMHOS/CM
ROUTINE	10/21/2001	12.00.00	0.01	IVIO/ L	0.77	OMITO	0.0100	WIO/L	121.00	OWN 100/01VI
SAMPLE	11/18/2004	10:00:00	0.69	MG/L	6.68	UNITS	0.0430	MG/L	141.80	UMHOS/CM
ROUTINE										
SAMPLE	12/08/2004	11:42:00	0.29	MG/L	6.7	UNITS	0.0230	MG/L	69.30	UMHOS/CM
			TEMP	TEMP	TSS	TSS	TSS	TURB	TURB	WEATHER COMMENTS
ACTIVITY	START	START								
CATEGORY	DATE	TIME	RESULTS	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS
ROUTINE SAMPLE	03/24/2004	11:06:00	2.10	DEG C	7		MG/L	8.50	NTU	CLEAR, BREEZY, 40'S

				_						
ROUTINE SAMPLE	04/22/2004	11:00:00	12.20	DEG C	1.50		MG/L	3.10	NTU	CLOUDY W/ INTER- MITTENT RAIN, CALM, 60'S
ROUTINE SAMPLE	05/19/2004	11:03:00	18.10	DEG C	1		MG/L	2.90	NTU	CLOUDY W/O RAIN, BREEZY, 70'S
ROUTINE SAMPLE FIELD DUPLICATE	06/16/2004 06/16/2004	10:00:00 10:22:00	21.60 21.80	DEG C DEG C	5 5	< <	MG/L MG/L	2.50 2.50	NTU NTU	CLEAR, BREEZY, 80 DEGREES F
ROUTINE SAMPLE	07/22/2004	10:55:00	24.50	DEG C	5	<	MG/L	3.50	NTU	CLEAR, CALM, 80 DEGREES F
ROUTINE SAMPLE ROUTINE	08/10/2004	09:10:00	22.40	DEG C	5	<	MG/L	2.10	NTU	CLEAR, CALM, 80 DEGREES F CLOUDY W/O RAIN.
SAMPLE ROUTINE	08/20/2004	10:43:00	21.90	DEG C	nd		MG/L	nd	NTU	CALM, 70 DEGREES F
SAMPLE	09/23/2004	11:10:00	17	DEG C	5	<	MG/L	2.50	NTU	SUNNY, CLEAR
ROUTINE SAMPLE	10/21/2004	12:00:00	9.70	DEG C	5	<	MG/L	2.20	NTU	CLOUDY W/O RAIN, BREEZE, 50S
ROUTINE SAMPLE	11/18/2004	10:00:00	3.30	DEG C	5	<	MG/L	2.10	NTU	CLOUDY W/O RAIN, CALM, 50S
ROUTINE SAMPLE	12/08/2004	11:42:00	1.30	DEG C	5	<	MG/L	1.90	NTU	PARTLY CLOUDY & SUNNY W/O RAIN

Legend	
BOD	BIOCHEMICAL OXYGEN DEMAND
CHL	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
DO	DISSOLVED OXYGEN
DO SAT	DISSOLVED OXYGEN SATURATION
DELETED	LAB ACCIDENT
EC	ESCHERICHIA COLI
NITR	NITROGEN AMMONIA
TKN	NITROGEN KJELDAHL
nd	NO SAMPLE COLLECTED OR NO MEASUREMENT MADE
NO2NO3	NITROGEN NITRATE + NITRITE
Р	PHOSPHORUS AS P

QUAL
COND SPECIFIC CONDUCTANCE
TEMP TEMPERATURE WATER
TSS TOTAL SUSPENDED SOLIDS
TURB TURBIDITY

## Salmon Falls River at Rt. 4, Rollinsford, 05-SFR Note: Data not meeting RPD are shaded.

ACTIVITY	START	START	BOD	BOD	BOD	CHL	CHL	DO	DO	DO SAT	DO SAT
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE SAMPLE FIELD	03/24/2004	11:26:00	2.40	<	MG/L	2.18	UG/L	13.47	MG/L	99.30	%
DUPLICATE ROUTINE	03/24/2004	11:40:00	2.40	<	MG/L	3.06	UG/L	12.98	MG/L	95.50	%
SAMPLE ROUTINE	04/22/2004	10:34:00	2.40	<	MG/L	1.83	UG/L	10.39	MG/L	96.70	%
SAMPLE ROUTINE	05/19/2004	10:37:00	2.40	<	MG/L	4.01	UG/L	8.87	MG/L	95.10	%
SAMPLE ROUTINE	06/16/2004	10:45:00	2.40	<	MG/L	11.89	UG/L	10.24	MG/L	123.30	%
SAMPLE ROUTINE	07/22/2004	11:17:00	2.40	<	MG/L	19.81	UG/L	10.35	MG/L	129.20	%
SAMPLE ROUTINE	08/10/2004	09:36:00	2.40	<	MG/L	18.13	UG/L	8.82	MG/L	104	%
SAMPLE ROUTINE	08/20/2004	10:25:00	nd		MG/L	nd	UG/L	8.87	MG/L	104.50	%
SAMPLE ROUTINE	09/23/2004	10:42:00	2	<	MG/L	nd	UG/L	9	MG/L	95.60	%
SAMPLE ROUTINE	10/21/2004	12:00:00	2.40	<	MG/L	1.97	UG/L	10.30	MG/L	91	%
SAMPLE ROUTINE	11/18/2004	09:29:00	2.40	<	MG/L	0.86	UG/L	11.69	MG/L	89.60	%
SAMPLE	12/08/2004	11:22:00	3.20		MG/L	1.28	UG/L	13.42	MG/L	96.10	%

ACTIVITY	START	START	EC	EC	EC	NITR	NITR	NITR	TKN	TKN	
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	QUAL	UNITS	RESULTS	UNITS	
ROUTINE											
SAMPLE	03/24/2004	11:26:00	10		CTS/100ML	0.13		MG/L	0.40	MG/L	
FIELD											
DUPLICATE	03/24/2004	11:40:00	10	<	CTS/100ML	0.15		MG/L	0.40	MG/L	
ROUTINE											
SAMPLE	04/22/2004	10:34:00	10	<	CTS/100ML	0.20	<	MG/L	0.30	MG/L	
ROUTINE	0=/40/0004	40.07.00	000		0.70/40014	0.00			0.50	140"	
SAMPLE	05/19/2004	10:37:00	360		CTS/100ML	0.08		MG/L	0.50	MG/L	
ROUTINE	00/40/0004	40.45.00	20		CTC/400MI	0.05		NAC/I	0.50	MO	
SAMPLE ROUTINE	06/16/2004	10:45:00	20		CTS/100ML	0.05	<	MG/L	0.50	MG/L	
SAMPLE	07/22/2004	11:17:00	10		CTS/100ML	0.05	<	MG/L	0.60	MG/L	
ROUTINE	01/22/2004	11.17.00	10		CTO/TOOME	0.00	_	IVIO/L	0.00	IVIO/L	
SAMPLE	08/10/2004	09:36:00	10		CTS/100ML	0.05	<	MG/L	0.60	MG/L	
ROUTINE	00/10/2001	00.00.00	.0		0.0/.002	0.00	`	10.07.2	0.00	1110/2	
SAMPLE	08/20/2004	10:25:00	nd		CTS/100ML	nd		MG/L	nd	MG/L	
ROUTINE											
SAMPLE	09/23/2004	10:42:00	30		CTS/100ML	0.05	<	MG/L	0.50	MG/L	
ROUTINE											
SAMPLE	10/21/2004	12:00:00	20		CTS/100ML	0.05	<	MG/L	0.40	MG/L	
ROUTINE											
SAMPLE	11/18/2004	09:29:00	10		CTS/100ML	0.14		MG/L	0.50	MG/L	
ROUTINE					0-0//						
SAMPLE	12/08/2004	11:22:00	20		CTS/100ML	0.05		MG/L	0.30	MG/L	
_											
ACTIVITY	START	START	NO2NO3	NO2NO3	NO2NO3	PH	PH	Р	Р	COND	COND
CATEGORY	DATE	TIME	RESULTS	QUAL	UNITS	RESULTS	UNITS	RESULTS	UNITS	RESULTS	UNITS
ROUTINE											<b>-</b>
SAMPLE	03/24/2004	11:26:00	0.24		MG/L	6.06	UNITS	0.0660	MG/L	83.10	UMHOS/CM
FIELD											
DUPLICATE	03/24/2004	11:40:00	0.25		MG/L	6.01	UNITS	0.0460	MG/L	82.90	UMHOS/CM
ROUTINE											
SAMPLE	04/22/2004	10:34:00	0.14		MG/L	6.11	UNITS	0.0250	MG/L	71.70	UMHOS/CM
ROUTINE	05/46/222:	40.07.00	0.44		NAC "	7.00		0.0400	NAC "	404.00	
SAMPLE	05/19/2004	10:37:00	0.11		MG/L	7.20	UNITS	0.0190	MG/L	101.80	UMHOS/CM
ROUTINE	06/46/0004	10.45.00	0.00		MC/I	6.04	LINUTO	0.0000	NAC /I	115.00	LIMILIO 2/01:
SAMPLE ROUTINE	06/16/2004	10:45:00	0.23		MG/L	6.24	UNITS	0.0320	MG/L	115.30	UMHOS/CM
SAMPLE	07/22/2004	11:17:00	0.20		MG/L	6.75	UNITS	0.0380	MG/L	145.20	UMHOS/CM
OAIVII LL	0112212004	11.17.00	0.20			0.75	UNITO	0.0300	IVIG/L	143.20	
					35						

ROUTINE											
SAMPLE ROUTINE	08/10/2004	09:36:00	0.16		MG/L	6.70	UNITS	0.0360	MG/L	148.30	UMHOS/CM
SAMPLE	08/20/2004	10:25:00	nd		MG/L	nd	UNITS	nd	MG/L	nd	UMHOS/CM
ROUTINE SAMPLE ROUTINE	09/23/2004	10:42:00	0.09		MG/L	6.73	UNITS	0.0190	MG/L	92.20	UMHOS/CM
SAMPLE ROUTINE	10/21/2004	12:00:00	0.08		MG/L	6.78	UNITS	0.0210	MG/L	97.70	UMHOS/CM
SAMPLE ROUTINE	11/18/2004	09:29:00	0.18		MG/L	5.95	UNITS	0.0490	MG/L	122.20	UMHOS/CM
SAMPLE	12/08/2004	11:22:00	0.11		MG/L	6.8	UNITS	0.0240	MG/L	56.50	UMHOS/CM
ACTIVITY CATEGORY	START DATE	START TIME	TEMP RESULTS	TEMP UNITS	TSS RESULTS	TSS QUAL	TSS UNITS	TURB RESULTS	TURB UNITS	WEATHER (	COMMENTS
ROUTINE						<u> </u>	5			NEOGE10	
SAMPLE FIELD	03/24/2004	11:26:00	2.80	DEG C	2		MG/L	1.60	NTU	CLEAR, BR	EEZY, 40'S
DUPLICATE	03/24/2004	11:40:00	2.70	DEG C	1		MG/L	1.70	NTU	CLEAR, BRI	EEZY, 40'S
ROUTINE SAMPLE	04/22/2004	10:34:00	12.20	DEG C	1		MG/L	1.20	NTU	CLOUDY W MITTENT R 60'S	
ROUTINE SAMPLE	05/19/2004	10:37:00	18.60	DEG C	2		MG/L	3.90	NTU	CLOUDY W BREEZY, 70	,
ROUTINE SAMPLE	06/16/2004	10:45:00	24.70	DEG C	5	<	MG/L	2.10	NTU	CLEAR, BRI DEGREES I	
ROUTINE SAMPLE	07/22/2004	11:17:00	26.80	DEG C	5	<	MG/L	2.80	NTU	CLEAR, CAI DEGREES I	
ROUTINE SAMPLE	08/10/2004	09:36:00	23.70	DEG C	5	<	MG/L	3.20	NTU	CLEAR, CA DEGREES I	
ROUTINE SAMPLE ROUTINE	08/20/2004	10:25:00	23.40	DEG C	nd		MG/L	nd	NTU	CLOUDY W. CALM, 70 D	,
SAMPLE	09/23/2004	10:42:00	18.40	DEG C	5	<	MG/L	2.10	NTU	SUNNY, CL	EAR
ROUTINE SAMPLE	10/21/2004	12:00:00	10.60	DEG C	5	<	MG/L	1.50	NTU	CLOUDY W. BREEZE, 50	
ROUTINE SAMPLE	11/18/2004	09:29:00	4.20	DEG C	5	<	MG/L	2.60	NTU	CLOUDY W. CALM, 50S	/O RAIN,

ROUTINE PARTLY CLOUDY & PARTLY CLOUDY & SAMPLE 12/08/2004 11:22:00 1.70 DEG C 5 < MG/L 1.60 NTU SUNNY W/O RAIN

Legend

BOD BIOCHEMICAL OXYGEN DEMAND

CHL CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN

DO DISSOLVED OXYGEN

DO SAT DISSOLVED OXYGEN SATURATION

DELETED LAB ACCIDENT
EC ESCHERICHIA COLI
NITR NITROGEN AMMONIA
TKN NITROGEN KJELDAHL

nd NO SAMPLE COLLECTED OR NO MEASUREMENT MADE

NO2NO3 NITROGEN NITRATE + NITRITE

P PHOSPHORUS AS P

QUAL QUALIFIER

COND SPECIFIC CONDUCTANCE
TEMP TEMPERATURE WATER
TSS TOTAL SUSPENDED SOLIDS

TURB TURBIDITY

## APPENDIX C –DATA NOT COMPLIANT WITH PARAMETER-SPECIFIC RELATIVE PERCENT DIFFERENCE

RESULTS INVALID - DAILY FIELD DUPLICATE RPD EXCEEDS CRITERIA IN APPROVED ARMP QAPP

Station ID	Sampling Date	Parameter
02-WNC	3/23/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
02-WNC	3/23/2004	PHOSPHORUS AS P
02-WNC	3/23/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-BER	3/23/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BER	3/23/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-BER	3/23/2004	PHOSPHORUS AS P
05-SAG	3/23/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SAG	3/23/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-SAG	3/23/2004	PHOSPHORUS AS P
09-EXT	3/23/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
09-EXT	3/23/2004	SOLIDS, TOTAL SUSPENDED (TSS)
09-EXT	3/23/2004	PHOSPHORUS AS P
05-BLM	3/24/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BLM	3/24/2004	PHOSPHORUS AS P
05-BLM	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-LMP	3/24/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-LMP	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-LMP	3/24/2004	PHOSPHORUS AS P
05-OYS	3/24/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-OYS	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-OYS	3/24/2004	PHOSPHORUS AS P
05-SFR	3/24/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SFR	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-SFR	3/24/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SFR	3/24/2004	PHOSPHORUS AS P
05-SFR	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-SFR	3/24/2004	PHOSPHORUS AS P
07-CCH	3/24/2004	SOLIDS, TOTAL SUSPENDED (TSS)
07-CCH	3/24/2004	PHOSPHORUS AS P
07-CCH	3/24/2004	DISSOLVED OXYGEN
02-WNC	4/20/2004	PHOSPHORUS AS P
02-WNC	4/20/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-BER	4/20/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-BER	4/20/2004	PHOSPHORUS AS P
05-SAG	4/20/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-SAG	4/20/2004	PHOSPHORUS AS P
09-EXT	4/20/2004	SOLIDS, TOTAL SUSPENDED (TSS)
09-EXT	4/20/2004	PHOSPHORUS AS P
09-EXT	4/20/2004	SOLIDS, TOTAL SUSPENDED (TSS)
09-EXT	4/20/2004	PHOSPHORUS AS P
05-BLM	4/22/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-BLM	4/22/2004	PHOSPHORUS AS P
05-LMP	4/22/2004	PHOSPHORUS AS P

RESULTS INVALID - DAILY FIELD DUPLICATE RPD EXCEEDS CRITERIA IN APPROVED ARMP QAPP

RESCEIS III	VILLED DINEII	ILLD DOT LICITIE KI D LICELDS C
Station ID	Sampling Date	Parameter
05-LMP	4/22/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-OYS	4/22/2004	PHOSPHORUS AS P
05-OYS	4/22/2004	SOLIDS, TOTAL SUSPENDED (TSS)
05-SFR	4/22/2004	PHOSPHORUS AS P
05-SFR	4/22/2004	SOLIDS, TOTAL SUSPENDED (TSS)
07-CCH	4/22/2004	PHOSPHORUS AS P
07-CCH	4/22/2004	SOLIDS, TOTAL SUSPENDED (TSS)
02-WNC	5/18/2004	NITROGEN, KJELDAHL
02-WNC	5/18/2004	NITROGEN, KJELDAHL
05-BER	5/18/2004	NITROGEN, KJELDAHL
05-SAG	5/18/2004	NITROGEN, KJELDAHL
09-EXT	5/18/2004	NITROGEN, KJELDAHL
05-BLM	5/19/2004	NITROGEN, KJELDAHL
05-LMP	5/19/2004	NITROGEN, KJELDAHL
05-OYS	5/19/2004	NITROGEN, KJELDAHL
05-SFR	5/19/2004	NITROGEN, KJELDAHL
07-CCH	5/19/2004	NITROGEN, KJELDAHL
02-WNC	6/15/2004	NITROGEN, KJELDAHL
05-BER	6/15/2004	NITROGEN, KJELDAHL
05-LMP	6/15/2004	NITROGEN, KJELDAHL
05-SAG	6/15/2004	NITROGEN, KJELDAHL
09-EXT	6/15/2004	NITROGEN, KJELDAHL
05-BLM	6/16/2004	NITROGEN, KJELDAHL
05-OYS	6/16/2004	NITROGEN, KJELDAHL
05-SFR	6/16/2004	NITROGEN, KJELDAHL
07-CCH	6/16/2004	NITROGEN, KJELDAHL
07-CCH	6/16/2004	NITROGEN, KJELDAHL
02-WNC	7/20/2004	NITROGEN, KJELDAHL
02-WNC	7/20/2004	ESCHERICHIA COLI
05-BER	7/20/2004	NITROGEN, KJELDAHL
05-BER	7/20/2004	ESCHERICHIA COLI
05-LMP	7/20/2004	NITROGEN, KJELDAHL
05-LMP	7/20/2004	ESCHERICHIA COLI
05-SAG	7/20/2004	ESCHERICHIA COLI
05-SAG	7/20/2004	NITROGEN, KJELDAHL
09-EXT	7/20/2004	ESCHERICHIA COLI
09-EXT	7/20/2004	NITROGEN, KJELDAHL
05-BLM	7/22/2004	NITROGEN, KJELDAHL
05-BLM	7/22/2004	ESCHERICHIA COLI
05-OYS	7/22/2004	NITROGEN, KJELDAHL
05-OYS	7/22/2004	ESCHERICHIA COLI
05-OYS	7/22/2004	ESCHERICHIA COLI
05-OYS	7/22/2004	NITROGEN, KJELDAHL
05-SFR	7/22/2004	NITROGEN, KJELDAHL
05-SFR	7/22/2004	ESCHERICHIA COLI
07-CCH	7/22/2004	ESCHERICHIA COLI

RESULTS INVALID - DAILY FIELD DUPLICATE RPD EXCEEDS CRITERIA IN APPROVED ARMP QAPP

RESCEIBIN	VILLID DINEI	The betterne at better better the training and the second
Station ID	Sampling Date	Parameter
07-CCH	7/22/2004	NITROGEN, KJELDAHL
05-BLM	8/10/2004	DISSOLVED OXYGEN SATURATION
05-BLM	8/10/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BLM	8/10/2004	DISSOLVED OXYGEN
05-OYS	8/10/2004	DISSOLVED OXYGEN SATURATION
05-OYS	8/10/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-OYS	8/10/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-OYS	8/10/2004	DISSOLVED OXYGEN
05-OYS	8/10/2004	DISSOLVED OXYGEN SATURATION
05-OYS	8/10/2004	DISSOLVED OXYGEN
05-SFR	8/10/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SFR	8/10/2004	DISSOLVED OXYGEN
05-SFR	8/10/2004	DISSOLVED OXYGEN SATURATION
07-CCH	8/10/2004	DISSOLVED OXYGEN SATURATION
07-CCH	8/10/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
07-CCH	8/10/2004	DISSOLVED OXYGEN
02-WNC	8/11/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
02-WNC	8/11/2004	DISSOLVED OXYGEN
02-WNC	8/11/2004	DISSOLVED OXYGEN SATURATION
05-BER	8/11/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BER	8/11/2004	DISSOLVED OXYGEN SATURATION
05-BER	8/11/2004	DISSOLVED OXYGEN
05-LMP	8/11/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-LMP	8/11/2004	DISSOLVED OXYGEN
05-LMP	8/11/2004	DISSOLVED OXYGEN SATURATION
05-SAG	8/11/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SAG	8/11/2004	DISSOLVED OXYGEN
05-SAG	8/11/2004	DISSOLVED OXYGEN SATURATION
09-EXT	8/11/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
09-EXT	8/11/2004	DISSOLVED OXYGEN SATURATION
09-EXT	8/11/2004	DISSOLVED OXYGEN
02-WNC	10/20/2004	ESCHERICHIA COLI
05-BER	10/20/2004	ESCHERICHIA COLI
05-SAG	10/20/2004	ESCHERICHIA COLI
05-BLM	10/21/2004	ESCHERICHIA COLI
05-LMP	10/21/2004	ESCHERICHIA COLI
05-OYS	10/21/2004	ESCHERICHIA COLI
05-OYS	10/21/2004	ESCHERICHIA COLI
05-SFR	10/21/2004	ESCHERICHIA COLI
07-CCH	10/21/2004	ESCHERICHIA COLI
09-EXT	10/21/2004	ESCHERICHIA COLI
02-WNC	11/17/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
02-WNC	11/17/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BER	11/17/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SAG	11/17/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
09-EXT	11/17/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN

RESULTS INVALID - DAILY FIELD DUPLICATE RPD EXCEEDS CRITERIA IN APPROVED ARMP QAPP Station ID Sampling Date Parameter

Station ID	Sampling Date	Parameter
05-BLM	11/18/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-LMP	11/18/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-OYS	11/18/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SFR	11/18/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
07-CCH	11/18/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
02-WNC	12/7/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BER	12/7/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BER	12/7/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SAG	12/7/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-BLM	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-LMP	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-OYS	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
05-SFR	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
07-CCH	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN
09-EXT	12/8/2004	CHLOROPHYLL A, UNCORRECTED FOR PHEOPHYTIN