

TO: FILE
FROM: MARK ALLENWOOD, PE
SUBJECT: CALCULATION OF THE CITY OF PORTSMOUTH'S EQUIVALENT DWELLING UNITS FOR AFFORDABILITY ANALYSIS
DATE: JUNE 3, 2010
CC:

An affordability analysis was preformed for the Jun 4th 2010 draft submission of the City of Portsmouth's Wastewater Master Plan and 2010 Long Term Control Plan Update (WMP/LTCP Update) to determine the capability of the City to implement either of the of the two wastewater treatment facility alternatives (WWTF) being considered.

The key to such an affordability calculation is the definition of the number of households served by the sewer system. There are a number of ways to determine the number of households including, census information, number of sewer bills and the number of equivalent dwelling units (EDU). For this evaluation the City used EDUs based on an average household water use as defined by the New Hampshire Department of Environmental Services (NHDES). This approach is consistent with how the City currently sets its sewer user rates and the methods used previously as part of its 2005 LTCP. This was deemed the most accurate way to evaluate how implementation of the WWTF alternatives would affect the City's Sewer rate payers.

For this affordability analysis presented in the draft WMP/LTCP Update the number of households served by the sewer system was determined to be approximately 3,900 EDUs. The total annual billable sewage volume from the City's records is 1.121 million units per year (1 unit = 100 cubic feet). The residential share of that volume is 42 % or 470,820 units per year. An average home is defined as 120 units per year per the City's rate model and NHDES. Therefore, dividing 470,820 residential units per year by 120 units per year per home, there are 3,923 EDUs being served by the City's sewer system. This number of EDUs is in the range of what was used for the 2005 LTCP. Attached is documentation of the City's usage numbers. Also attached is information relating to the selection of 120 units per year as an average home usage and information used in the 2005 LTCP affordability calculations.

HISTORY OF SEWER USAGE

CITY OF PORTSMOUTH, NEW HAMPSHIRE
ACTUAL USAGE HISTORY BY CLASS AND PERIOD

Total Number of Sewer Accounts:

SEWER
6,067

	July	August	September	October	November	December	January	February	March	April	May	June	Total
1992/1993	99,597	61,889	113,503	97,126	109,019	52,967	97,280	80,932	89,149	51,419	87,283	86,135	1,019,929
1993/1994	114,502	88,112	117,832	97,166	114,135	57,284	103,393	87,448	96,698	44,437	103,318	85,977	1,110,262
1994/1995	100,628	72,458	114,134	98,200	107,918	55,552	89,127	72,041	88,019	44,022	98,438	84,359	1,024,896
1995/1996	114,662	56,633	117,066	103,707	112,398	56,706	98,738	85,439	96,085	56,714	84,929	76,563	1,059,640
1996/1997	104,658	67,970	112,030	90,663	119,779	66,441	94,073	83,238	96,432	58,804	92,432	83,448	1,050,640
1997/1998	90,840	64,975	108,308	134,677	106,945	37,314	106,945	86,143	92,906	64,547	95,500	98,278	1,088,062
1998/1999	89,411	59,062	114,378	98,814	104,096	16,877	76,468	129,577	127,004	104,716	93,457	92,696	1,106,556
1999/2000	113,904	68,701	111,242	94,512	105,501	87,467	155,501	103,134	108,991	84,745	105,152	79,467	1,182,719
2000/2001	110,027	71,191	138,480	103,049	85,393	68,977	127,658	81,780	114,005	114,238	83,971	81,054	1,057,089
2001/2002	90,544	136,885	82,484	122,225	115,304	85,230	121,436	103,071	114,238	97,155	146,485	41,528	1,256,585
2002/2003	141,887	118,048	154,526	141,584	97,720	86,292	217,614	178,780	105,883	86,180	116,066	101,985	1,546,536
2003/2004	210,354	148,172	139,607	171,880	118,290	80,943	131,932	86,476	97,300	91,838	114,997	108,840	1,500,629
2004/2005	110,782	87,267	118,460	100,554	108,890	73,524	108,890	87,594	92,803	71,524	126,205	126,205	1,237,182
2005/2006	97,969	(33,088)	231,166	104,688	104,534	74,155	106,623	74,913	112,024	80,642	105,570	131,115	1,190,312
2006/2007	114,754	84,720	120,648	109,282	103,764	64,385	113,773	97,359	100,015	72,313	106,197	86,155	1,172,364
2007/2008	99,561	107,445	130,021	108,852	105,763	73,996	114,156	86,486	93,164	73,097	101,822	95,939	1,190,312
2008/2009	146,738	137,080	103,913	108,474	104,397	73,599	105,639	63,799	81,309	79,760	79,145	81,946	1,165,799
average 92-08	112,755	78,778	128,141	108,968	103,937	65,596	113,350	95,277	100,337	72,883	105,884	88,701	1,174,607
avg % of total	9.6%	6.7%	10.9%	9.3%	8.8%	5.6%	9.7%	8.1%	8.5%	6.2%	9.0%	7.6%	100.0%
avg cumulator	112,755	191,533	319,673	428,642	532,579	598,175	711,526	806,802	907,140	980,022	1,085,906	1,174,607	-
ave exclude FY03&04	103,703	71,016	125,437	102,145	104,175	62,205	104,576	89,941	100,158	70,579	104,506	86,314	1,124,754
cumulative ave exclude	103,703	174,719	300,156	402,301	506,475	568,680	673,256	763,197	863,355	933,934	1,038,440	1,124,754	0

0.02
24,513

	Municipal	Industrial	Residential	Commercial	Other Utilities	Pease	Total
1992/1993	16,088	94,556	607,852	288,009	13,424	-	1,019,929
1993/1994	16,083	92,504	635,203	330,361	13,915	22,196	1,110,262
1994/1995	20,235	69,651	570,874	314,184	13,628	36,324	1,024,896
1995/1996	18,316	71,838	574,434	344,280	16,041	34,731	1,059,640
1996/1997	16,891	75,268	567,366	334,136	16,221	40,744	1,050,646
1997/1998	17,412	65,087	577,765	346,444	15,528	65,826	1,088,062
1998/1999	19,151	88,208	559,594	345,695	24,440	69,468	1,106,556
1999/2000	21,665	89,293	518,971	439,982	27,977	84,831	1,182,719
2000/2001	15,650	62,475	520,479	347,081	20,361	91,043	1,057,089
2001/2002	21,544	89,117	567,881	443,671	24,987	109,385	1,256,586
2002/2003	38,886	233,713	616,404	596,141	61,391	-	1,546,536
2003/2004	52,503	164,644	579,629	659,069	44,784	-	1,500,629
2004/2005	23,445	110,656	525,638	533,221	44,222	-	1,237,182
2005/2006	13,390	89,132	474,727	436,261	45,686	-	1,059,197
2006/2007	22,913	100,539	570,932	452,064	25,917	1,172,364	1,172,364
2007/2008	16,673	81,901	515,988	530,362	45,388	1,190,312	1,190,312
2008/2009	12,305	137,666	486,378	500,308	29,142	1,165,799	1,165,799
TOTAL	363,150	1,716,248	9,470,135	7,241,269	483,052	554,548	19,828,403
% of total	1.83%	8.66%	47.76%	36.52%	2.44%	2.80%	100%
average thru 08	21,928	98,661	561,485	421,310	28,369	61,616	1,193,370
avg % thru 08	1.84%	8.27%	47.05%	35.30%	2.38%	5.16%	100.00%
% (no Pease cat)	1.84%	8.27%	47.05%	40.47%	2.38%	-	100.00%

Project Conservation at:
Unit Usage for next year Projected:
0.5%
1,119,130

Determining usage with consideration of conservation, take the "average used" per month reducing it by the conservation %, then * "average % of total" per class
Each class monthly based on total annual % class is of usage applied to the projected average usage

	July	August	September	October	November	December	January	February	March	April	May	June	Total
Municipal (1)	1,886	1,238	2,293	1,867	1,905	1,137	1,912	1,644	1,831	1,290	1,911	1,578	20,564
Industrial (2)	8,531	5,842	10,319	8,403	8,570	5,117	8,603	7,399	8,239	5,806	8,597	7,100	92,524
Residential (3)	48,549	33,246	58,724	47,819	48,769	29,121	48,957	42,106	46,889	33,042	48,925	40,408	526,555
Commercial (4)	41,756	28,595	50,507	41,129	41,946	25,047	42,108	36,215	40,329	28,419	42,079	34,754	452,884
Other Utilities (5)	2,453	1,680	2,967	2,416	2,464	1,471	2,474	2,127	2,369	1,669	2,472	2,042	28,605
total	103,184	70,661	124,810	101,634	103,654	61,894	104,053	89,491	99,657	70,226	103,983	85,882	1,119,130



The State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES



Thomas S. Burack, Commissioner

July 15, 2008

To: Municipal Official

Re: Sewer User Charge Rates

House Bill 1376 FN (Chapter 277, Laws of New Hampshire) was enacted in 1992 prescribing eligibility for a 20 percent state grant to communities for wastewater projects. An additional 10 percent state grant was also described in this law. The law calls for the state to pay an additional 10 percent of the eligible project costs when the work will create a user charge which is 20 percent higher than the state average user charge.

To enable the Commissioner of the Department of Environmental Services to determine eligibility for the grants, we must determine the "State average" cost to sewer users. As a result, we are asking you to please respond to the question below. A response is required from all municipalities in order to provide an accurate figure of the statewide average user charge.

What was the total annual cost of sewer service last year (2007) for a typical family home using 90,000 gallons, or 12,000 cubic feet of water per year or approximately 240 gallons per day?

\$ _____
Total Annual Cost

Signature of Municipal Official

Municipality

Printed name of Municipal Official

This survey will be completed each year to ensure the values are current, and the municipality will be required to substantiate the value at the time of application for the state aid grant.

We thank you for your efforts in this matter. Feel free to fax your response to 271-4128 to save on mailing.

If there are any questions, please contact Ms. Beth Malcolm at 271-2978. Please address your response to the attention of Beth Malcolm.

Very truly yours,

Stephen H. Snell
Grant Program Director
Wastewater Engineering Bureau

SHS/blm

08ANNSUR.doc

7. FUNDING

The LTCP represents a long term and major financial commitment for the City of Portsmouth. Since 1997, the City has invested approximately \$1 million per year and more recently (2003), an estimated \$5 million were spent for the construction of sewer and drainage improvements projects (City of Portsmouth, 2003 and 2004). The LTCP projects must now be incorporated in the City's long range capital improvements planning for their implementation along with other critical infrastructure needs including additional sewer / drain, water, roads, curbing and sidewalk improvements.

This section presents the funding sources considered for implementation of the LTCP projects and their incorporation in the City's capital improvements planning (CIP).

7.1 State Aid Grant

The State of New Hampshire has established a wastewater grant program that provides up to 30% of eligible costs to municipalities to assist with the planning, design and construction of sewage disposal facilities including CSO controls. Based on an average sewer user fee of \$534 / year for a typical residential user in the City of Portsmouth, the City qualifies for the maximum grant amount of 30% under the SAG program. The eligibility criterion is included as Appendix 7-1. The City must fund the project in its entirety first and the SAG program then reimburses up to 30% of the eligible costs based on the City's debt schedule.

7.2 State Revolving Loan Fund

The State Revolving Loan Fund (SRF) Program provides low interest loans to assist communities with the design and construction of eligible wastewater and other infrastructure projects. The requirements for obtaining SRF loans are generally the same as for the SAG program (see above and Appendix 7-1). In addition, SRF loans require the participation of minority and women's business enterprises, as well as the preparation and approval of an environmental assessment for each project.

The City has appropriated \$22.5 million through the SRF program through March 2004 (City of Portsmouth, 2004). The appropriation will be disbursed in several loans. Most of the appropriated \$22.5 million will be used to assist with the LTCP projects. The City is pursuing additional funding through the SRF storm water and water programs to assist with other critical infrastructure projects it may elect to implement concurrently with the LTCP. Section 7.4 presents a summary of the overall LTCP program costs (SRF eligible / ineligible) along with the costs for other infrastructure improvements identified by the City.

7.3 State and Tribal Assistance Grants

The federal government provides funds through the State and Tribal Assistance Grants (STAG) program for water, wastewater, and groundwater infrastructure projects. Projects to be funded are approved annually and are administered through regional EPA offices. The grants require 45% local cost-sharing match. The City of Portsmouth submitted a STAG application for

76,500 including \$440,000 (45%) local match in October 2003. A copy of the application is included as Appendix 7-2. If approved, these funds are anticipated to be applied to the construction of the Lincoln Area separation projects.

7.4 Capital improvements planning

The sewer improvements projects were incorporated as part of the City's capital improvements planning since 1999 (Underwood Engineers, Wastewater Facilities Plan Update). These costs are reviewed and updated annually for the City's planning along with other critical infrastructure needs including additional sewer / drain, storm water, water, curbing, sidewalk, and road projects. A summary of the projected cash flow for the LTCP and other CIP projects are shown in Tables 7-1 and 7-2. These are budgetary costs intended for long range planning by the City. Actual costs will depend on the effectiveness of the sewer improvements, the implementation of other infrastructure projects, and the availability of funding.

Table 7-1 Long range cash flow projections – LTCP projects

Project	2004	2005	2006	2007	2008	2009-2013	2014-2018	2019+	
<i>Millions of \$, rounded (2003 costs)</i>									
Long Term Control Plan	Phase 1							Phase 2	TOTAL
Phase 1	Lincoln Area Sewer Separation								
	Eligible Sewer/Drain	\$1.00	\$1.00	\$2.10	\$1.50	\$1.50	\$6.67	\$7.60	\$21.37
	Storm water treatment								
	Vortex type separators	\$0.25	\$0.25						\$0.50
	Pumping Station Upgrades								
	Deer Street	\$0.5	\$0.5	\$1.0					\$2.00
	Mechanic Street				\$0.3				\$0.30
	Compliance Monitoring					\$0.33	TBD		\$0.33
Subtotal Phase 1 + compliance monitoring									\$24.5
Phase 2	Plus Abatement Projects for remaining CSOs								
	Monitoring, evaluation, design and construction							\$2.2 - 6.0	\$6.0
Total LTCP		\$1.75	\$1.75	\$3.10	\$1.80	\$1.83	\$6.67	\$7.60	\$30.5

Note: Costs presented are order of magnitude conceptual estimates intended solely for the City's long-range planning needs.

Table 7-2 Additional Capital Improvements Planning (CIP) needs

Capital Improvements Plan	2004	2005	2006	2007	2008	2009-2013	2014-2018	2019+	Total
<i>Millions of \$, rounded (2003 costs)</i>									
Ineligible Sewer/Drain	\$0.61	\$0.30	\$1.25	\$0.57	\$0.19	\$1.82	\$2.03		\$6.77
Water	\$0.08	\$0.51	\$0.32	\$0.90	\$0.35	\$2.05	\$2.33	TBD	\$6.54
Sidewalk/Curb	\$0.17	\$0.46	\$0.45	\$0.54	\$0.26	\$2.42	\$2.71	TBD	\$7.01
Total additional CIP	\$0.86	\$1.27	\$2.02	\$2.01	\$0.80	\$6.29	\$7.07	TBD	\$20.3

Note: Costs presented are order of magnitude conceptual estimates intended solely for the City's long-range planning needs.

7.5 Financial capability assessment

The City prepared the financial assessment recommended in EPA's guidance, for Financial Capability Assessment and Schedule Development (EPA, 1987). Based on the appropriated SRF funds of \$22.5M, the City's residential indicator score is 1.86% of the median household income. Therefore, the overall sewer improvements program costs are likely to exceed 2% of the City's median household income. The costs per household worksheets are included as Appendix 7-3.

COST PER HOUSEHOLD
Worksheet I

		<u>Line Number</u>
Current WWT Costs		
• Annual Operations and Maintenance Expenses (Excluding Depreciation)	<u>4,031,106 (FY2002)</u>	100
• Annual Debt Service (Principal and Interest)	<u>2,758,590</u>	101
Subtotal (Line 100 + Line 101)	<u>6,789,696</u>	102
Projected WWT and CSO Costs (Current Dollars)		
• Estimated Annual Operations and Maintenance Expenses (Excluding Depreciation) \$22.5m	<u>500,000 *1</u>	103
• Annual Debt Service (Principal and Interest)	<u>2,025,000 *2</u>	104
Subtotal (Line 103 + Line 104)	<u>2,525,000</u>	105
Total Current and Projected WWT and CSO Costs (Line 102 + Line 105)	<u>9,314,696</u>	106
Residential Share of Total WWT and CSO Costs (54%)	<u>5,029,936</u>	107
Total number of Households in Service Area	<u>4,825</u>	108
Cost Per Household (Line 107 ÷ Line 108)	<u>1,042 (\$1356)*3</u>	109

*1 - Does not include \$1m for O&M of new WWTP

*2 - Does not include \$20m for new WWTP

*3 - Includes new WWTP costs

RESIDENTIAL INDICATOR
Worksheet 2

		<u>Line Number</u>
Median Household Income (MHI)		
• Census Year MHI	<u>2001</u>	201
• MHI Adjustment Factor	<u>1</u>	202
• Adjusted MHI (Line 201 x Line 202)	<u>56,100 (2001)</u>	203
Annual WWT and CSO Control Cost Per Household (CPH) (Line 109)		
	<u>1042</u>	204
Residential Indicator:		
Annual Wastewater and CSO Control Costs per Household as a percent of Adjusted Median Household Income (CPH as % MHI) (Line 204 ÷ Line 203 x 100)		
	<u>1.86%</u>	205

BOND RATING
Worksheet 3

Line Number

• Most Recent General Obligation Bond Rating	<u>A-1</u>	
Date:	<u>June 30, 2001</u>	
Rating Agency:	<u>Moody's</u>	
Rating:	<u>A-1</u>	301
• Most Recent Revenue (Water/Sewer or Sewer) Bond		
Date:	<u>N/A</u>	
Rating Agency:	<u> </u>	
Bond Insurance (Yes/No)	<u> </u>	
Rating:	<u> </u>	302
Summary Bond Rating:	<u> </u>	303

OVERALL NET DEBT AS A PERCENT OF FULL MARKET PROPERTY VALUE
Worksheet 4

		<u>Line Number</u>
• Direct Net Debt (G.O. Bonds Excluding Double- Barreled Bonds)	<u>30,932,557</u>	401
• Debt of Overlapping Entities (Proportionate Share of Multijurisdictional Debt)	<u>N/A</u>	402
• Overall Net Debt (Lines 401+402)	<u>30,932,557</u>	403
• Market Value of Property	<u>2,490,644,613</u>	404
• Overall Net Debt as a Percent of Full Market Property Value (Line 403 divided by Line 404 x 100)	<u>1.24%</u>	405

UNEMPLOYMENT RATE

Worksheet 5

Line Number

- | | | | |
|------------|---|--|-----|
| • | Unemployment Rate - Permittee | <u>2.3%</u> | 501 |
| | Source: | <u>CAFRA Report June 2001</u> | |
| • | Unemployment Rate - County
(use if permittee's rate is
unavailable) | <u> </u> | 502 |
| • | Source: | <u> </u> | |
| Benchmark: | | | |
| • | Average National
Unemployment Rate: | <u>4.4%</u>
June 2001 (Aug) | 503 |
| • | Source: | <u>Bureau of Labor Statistics (Web site)</u> | |

Benchmark:

MEDIAN HOUSEHOLD INCOME **Worksheet 6**

		<u>Line Number</u>
• Median Household Income - Permittee (Line 203)	<u>56,100</u>	601
• Source:	<u></u>	
Benchmark:		
• Census Year National MHI	<u>38,885 (1998)</u>	602
• MHI Adjustment Factor (line 202)	<u>1.147</u>	603
• Adjusted National MHI: (line 602 x line 603)	<u>44,591</u>	604
• Source:	<u>U.S. Census Bureau</u>	

**PROPERTY TAX REVENUES AS A PERCENT OF FULL MARKET PROPERTY
VALUE**

Worksheet 7

		<u>Line Number</u>
• Full Market Value of Real Property (Line 404)	<u>2,490,644,613</u>	701
• Property Tax Revenues	<u>41,122,197</u>	702
• Property Tax Revenue as a Percent of Full Market Property Value (702 ÷ 701 x 100)	<u>1.68%</u>	703

PROPERTY TAX REVENUE COLLECTION RATE
Worksheet 8

		<u>Line Number</u>
• Property Tax Revenue Collected (Line 702)	<u>39,878,435</u>	801
• Property Taxes Levied	<u>41,122,197</u>	802
• Property Tax Revenue Collection Rate (line 801 ÷ line 802 x 100)	<u>97%</u>	803

SUMMARY OF PERMITTEE FINANCIAL CAPABILITY INDICATORS
Worksheet 9

<u>Indicator</u>	<u>Column A: Actual Value</u>	<u>Column B: Score</u>	<u>Line Number</u>
Bond Rating (Line 303)	<u>A-1</u>	<u>3</u>	901
Overall Net Debt as a Percent of Full Market Property Value (line 405)	<u>1.24%</u>	<u>3</u>	902
Unemployment Rate (Line 501)	<u>2.3%</u>	<u>3</u>	903
Median Household Income (Line 601)	<u>56100</u>	<u>2</u>	904
Property Tax Revenues as a Percent of Full Market Property Value (Line 703)	<u>1.68%</u>	<u>3</u>	905
Property Tax Revenue Collection Rate (Line 803)	<u>97%</u>	<u>2</u>	906
Permittee Indicators Score (Sum of Column B ÷ Number of Entries)		<u>2.67</u>	907

FINANCIAL CAPABILITY MATRIX SCORE
Worksheet 10

		<u>Line Number</u>
• Residential Indicator Score (Line 205)	<u>1.86</u>	1001
• Permittee Financial Capability Indicators Score (Line 907)	<u>2.67</u>	1002
• Financial Capability Matrix Category (see matrix next page)	<u>Low Burden</u>	1003

Note - If new WWTP \$20m Capital + \$1m O&M then RIS = 2.42 Medium Burden



Residential Sewer User Charges for NH Communities

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Compiled by NHDES/Wastewater Engineering Bureau

MUNICIPALITY	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992
ALLENSTOWN	\$391.92	\$321.00	\$297.00	\$362.00	\$384.50	\$229.90	\$229.90	\$229.90	\$229.90	\$229.90	\$216.40	\$184.00	\$184.00	\$171.00
ANTRIM	\$526.71	\$526.71	\$513.56	\$513.58	\$513.48	\$513.48	\$513.48	\$513.48	\$513.48	\$458.74	\$417.50	\$417.52	\$417.52	\$379.44
ASHLAND	\$630.00	\$630.00	\$603.75	\$595.20	\$595.20	\$595.20	\$789.60	\$293.88	\$293.88	\$293.88	\$220.00	\$220.08	\$215.28	\$214.32
BEDFORD	\$194.00	\$194.00	\$229.80	\$212.40	\$213.24	\$213.24	\$213.24	\$193.80	\$193.80	\$193.80	\$193.80	\$193.20	\$193.80	\$190.00
BELMONT	\$40.00	\$40.00	\$40.00	\$92.00	\$92.00	\$92.00	\$290.66	\$290.66	\$290.66	\$290.66	\$290.66	\$300.00	\$118.16	\$290.66
BENNINGTON	\$262.20	\$345.12	\$345.12	\$345.12	\$345.12	\$345.12	\$345.12	\$345.12	\$345.12	\$345.12	\$313.68	\$285.40	\$285.40	\$285.40
BERLIN	\$455.04	\$409.68	\$381.60	\$381.60	\$381.60	\$381.60	\$369.36	\$361.00	\$353.52	\$353.52	\$353.52	\$424.32	\$280.82	\$209.00
BETHLEHEM VD	\$349.25	\$322.00	\$302.50	\$302.50	\$302.50	\$302.50	\$301.70	\$295.80	\$290.00	\$290.00	\$290.00	\$289.10	\$280.68	\$199.44
BOSCAWEN	\$612.00	\$600.00	\$450.00	\$444.00	\$442.00	\$300.00	\$480.00	\$480.00	\$480.00	\$480.00	\$570.00	\$570.00	\$550.00	\$540.00
BOW	\$296.00	\$296.00	\$296.00	\$296.00	\$296.00	\$296.00	\$296.00	\$296.00	\$296.00	\$296.00	\$296.00	\$296.00	\$296.00	\$296.00
BRISTOL	\$537.32	\$537.32	\$517.32	\$517.32	\$517.32	\$517.32	\$517.32	\$492.48	\$492.48	\$492.48	\$492.48	\$492.48	\$563.64	\$578.26
CANAAN	\$391.52	\$391.50	\$486.00	\$391.50	\$391.50	\$391.50	\$391.50	\$391.50	\$403.52	\$444.00	\$423.00	\$391.50	\$391.50	\$391.50
CENTER HARBOR	\$250.00	\$250.00	<i>\$250.00</i>	\$250.00	\$250.00	\$250.00	\$250.00	\$250.00	\$250.00	\$250.00	\$250.00	\$250.00	\$246.75	\$235.00
CHARLESTOWN	\$240.00	\$240.00	\$240.00	\$240.00	\$270.00	\$240.00	\$240.00	\$240.00	\$250.00	\$255.00	\$255.00	\$240.00	\$190.18	\$160.00
CLAREMONT	\$521.28	\$520.00	\$520.00	\$520.00	\$482.00	\$520.00	\$520.00	\$398.00	\$398.00	\$398.00	\$398.00	\$398.00	\$398.96	\$363.28
COLEBROOK	\$270.00	\$270.00	\$270.00	\$274.96	\$274.96	\$270.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$188.00	\$240.64
CONCORD	\$322.80	\$322.80	\$322.80	\$322.80	\$322.80	\$322.80	\$303.60	\$295.20	\$280.00	\$280.00	\$280.00	\$280.80	\$280.80	\$280.80
CONWAY VILLAGE	\$324.00	\$254.00	<i>\$200.00</i>	\$200.00	\$162.00	\$162.00	\$168.00	\$114.00	\$108.00	\$94.00	\$90.00	\$104.00	\$144.00	\$91.00
DALTON	\$340.00	\$340.00	\$340.00	\$340.00	\$340.00	\$340.00	\$340.00	\$340.00	\$340.00	\$340.00	\$340.00	\$340.00	\$320.00	\$320.00
DERRY	\$387.52	\$324.40	\$324.40	\$324.40	\$324.40	\$324.40	\$324.40	\$324.40	\$324.40	\$324.40	\$358.40	\$358.40	\$359.20	\$248.00
DOVER	\$481.20	\$481.20	\$477.60	\$447.60	\$430.80	\$384.00	\$384.00	\$367.20	\$367.20	\$367.20	\$367.20	\$360.00	\$360.00	\$360.00
DURHAM	\$555.60	\$555.60	\$375.60	\$373.20	\$420.00	\$395.00	\$357.60	\$357.60	\$298.80	\$298.80	\$290.40	\$264.00	\$264.71	\$207.00
ENFIELD	\$948.96	\$980.20	\$944.04	\$944.04	\$431.64	\$431.64	\$431.64	\$399.36	\$431.64	\$431.64	\$436.64	\$431.30	\$431.64	\$432.64
EPPING	\$399.00	\$362.60	\$282.60	\$362.20	\$221.30	\$221.30	\$221.30	\$221.30	\$221.30	\$221.30	\$136.70	\$136.70	\$136.70	\$136.70
ERROL	\$206.00	\$306.00	<i>\$360.00</i>	\$360.00	\$320.00	\$306.00	\$340.00	\$340.00	\$304.00	\$340.00	\$340.00	\$340.00	-	-
EXETER	\$356.00	\$355.84	\$271.80	\$373.84	\$281.64	\$281.64	\$281.64	\$281.64	\$281.64	\$281.64	\$299.64	\$239.16	\$284.64	\$281.65
FARMINGTON	\$504.00	\$504.00	\$504.00	\$359.10	\$359.10	\$359.10	\$359.10	\$359.10	\$359.10	\$359.10	\$359.10	\$359.10	\$359.10	\$359.10
FRANKLIN	\$412.00	\$353.00	\$335.20	\$335.20	\$335.20	\$335.20	\$335.20	\$335.20	\$335.20	\$321.60	\$321.60	\$321.60	\$320.20	\$322.26
GILFORD	\$525.06	\$272.70	\$511.43	\$511.43	\$511.43	\$511.43	\$511.43	\$287.29	\$287.29	\$374.86	\$374.86	\$374.86	\$374.86	\$374.86
GOFFSTOWN	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$200.00	\$220.00
GORHAM	\$403.00	\$420.20	\$395.00	\$395.00	\$395.00	\$383.00	\$395.00	\$383.00	\$401.96	\$402.00	\$364.25	\$349.00	\$419.56	\$300.00
GREENVILLE	\$762.90	\$762.90	\$762.90	\$762.90	\$585.00	\$540.00	\$389.00	\$389.00	\$389.00	\$339.00	\$339.00	\$339.00	\$389.38	\$381.00
GREENVILLE EST VD	\$807.50	\$807.50	\$517.50	\$517.50	\$648.20	\$564.50	\$564.50	\$564.50	\$564.50	\$526.00	-	-	-	-
GROVETON	\$368.00	\$368.00	\$390.00	\$240.00	\$200.00	\$200.00	\$200.00	\$200.00	\$120.00	\$90.00	\$90.00	\$90.00	\$86.00	\$82.00
HAMPTON	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
HANOVER	\$255.00	\$279.85	\$255.00	\$228.64	\$228.64	\$228.64	\$228.64	\$363.00	\$363.00	\$363.00	\$363.00	\$330.00	\$331.00	\$331.00
HENNIKER	\$384.94	\$344.43	\$343.20	\$331.74	\$329.02	\$315.90	\$293.18	\$291.66	\$286.78	\$283.56	\$280.86	\$265.48	\$221.62	\$210.36
HIGHLANDS VILLAGE	\$1,080.00	\$1,080.00	\$1,080.00	\$1,080.00	\$850.00	\$850.00	\$936.00	-	-	-	-	-	-	-
HILLSBOROUGH	\$290.00	\$300.00	\$400.00	\$150.00	\$120.00	\$132.00	\$110.00	\$100.00	\$100.00	\$100.00	\$100.00	\$100.00	\$100.00	\$100.00
HINSDALE	\$605.00	\$605.00	\$470.00	\$605.00	\$605.00	\$455.00	\$605.00	\$473.75	\$430.00	\$430.00	\$240.00	\$240.00	\$240.00	\$240.00
HOLDERNESS	\$387.00	\$387.00	\$387.00	\$387.00	\$387.00	\$343.80	\$349.00	\$490.00	\$249.30	\$249.30	\$251.70	\$217.00	\$217.00	
HOOKSETT	\$359.20	\$356.00	\$356.00	\$311.00	\$311.00	\$266.00	\$266.00	\$266.00	\$266.00	\$266.00	\$266.00	\$266.00	\$266.00	\$228.00
HOPKINTON	\$496.10	\$476.10	\$518.40	\$476.10	\$476.10	\$456.10	\$456.10	\$427.20	\$427.20	\$427.20	\$427.20	\$406.20	\$406.34	\$340.50
HUDSON	\$227.24	\$226.86	\$227.00	\$235.00	\$242.88	\$242.88	\$242.80	\$242.80	\$242.80	\$227.25	\$233.86	\$250.00	\$249.95	\$223.00
JAFFREY	\$726.60	\$672.00	\$672.00	\$672.00	\$594.00	\$547.20	\$547.20	\$457.86	\$459.00	\$459.00	\$459.00	\$431.00	\$431.00	\$431.00
KEENE	\$478.04	\$310.60	<i>\$310.60</i>	\$310.60	\$310.60	\$310.60	\$310.60	\$311.43	\$310.60	\$310.60	\$310.60	\$310.60	\$311.58	\$252.68
LACONIA	\$281.60	\$281.60	\$281.60	\$281.60	\$281.60	\$281.60	\$281.60	\$281.60	\$281.60	\$281.60	\$281.60	\$281.60	\$281.60	\$281.60
LANCASTER	\$331.50	\$331.50	\$331.50	\$271.50	\$286.50	\$286.50	\$286.50	\$286.50	\$286.50	\$254.00	\$110.00	\$110.00	\$110.00	\$90.00
LANDAFF	\$488.00	\$540.00	\$525.00	\$525.00	\$400.00	\$400.00	\$400.00	\$310.00	\$310.00	\$281.00	\$281.00	\$255.50	\$255.50	\$204.98
LEBANON	\$337.68	\$337.68	\$337.68	\$337.68	\$337.68	\$293.64	\$255.36	\$255.46	\$215.40	\$215.40	\$215.40	\$215.40	\$193.07	\$215.96
LINCOLN	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
LISBON	\$488.00	\$540.00	\$530.00	\$525.00	\$400.00	\$400.00	\$400.00	\$310.00	\$310.00	\$281.00	\$281.00	\$255.50	\$255.50	\$204.98
LITTLETON	\$337.54	\$322.03	\$354.41	\$335.73	\$329.96	\$314.60	\$254.08	\$246.30	\$235.24	\$212.81	\$199.20	\$172.95	\$172.95	\$127.00
LONDONDERRY	\$320.00	\$320.00	\$320.00	\$320.00	\$320.00	\$320.00	\$320.00	\$320.00	\$320.00	\$320.00	\$320.00	\$320.00	\$312.00	\$312.00
MANCHESTER	\$260.00	\$230.00	\$230.00	\$230.00	\$230.00	\$230.00	\$230.00	\$230.00	\$230.00	\$230.00	\$230.00	\$208.40	\$208.83	\$174.00

MARLBOROUGH	\$247.50	\$247.50	\$247.50	\$247.50	\$247.50	\$247.50	\$247.50	\$247.50	\$270.00	\$337.50	\$450.00	\$450.00	\$450.00	\$450.00
MEREDITH	\$356.00	\$356.00	\$356.00	\$391.00	\$356.00	\$351.00	\$336.00	\$336.00	\$336.00	\$336.00	\$336.00	\$336.00	\$288.45	\$288.44
MERIDEN VILLAGE	\$440.00	\$440.00	\$440.00	\$440.00	\$440.00	\$340.00	\$280.00	\$280.00	\$280.00	\$264.00	\$297.00	\$240.00	\$215.97	\$240.00
MERRIMACK	\$175.00	\$175.00	\$134.00	\$134.00	\$134.00	\$134.00	\$134.00	\$134.00	\$134.00	\$134.00	\$134.00	\$134.00	\$134.00	\$134.00
MILFORD	\$296.00	\$369.60	\$369.60	\$333.12	\$333.12	\$332.40	\$334.08	\$333.12	\$333.12	\$333.12	\$334.43	\$316.80	\$318.00	\$302.40
MILTON	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00	\$150.00	\$175.00	\$175.00
NASHUA	\$230.40	\$230.40	\$240.00	\$284.40	\$282.53	\$296.00	\$284.94	\$284.40	\$149.28	\$149.28	\$170.40	\$166.67	\$161.82	\$154.00
NEW HAMPTON VD	\$450.00	\$297.00	\$270.00	\$175.00	\$168.53	\$168.53	\$157.50	\$157.50	\$133.00	\$133.00	\$126.00	\$126.00	\$126.00	\$126.00
NEW LONDON	\$895.00	\$805.00	\$705.00	\$805.00	\$585.00	\$760.00	\$760.00	\$760.00	\$760.00	\$796.00	\$815.00	\$788.00	\$814.10	\$547.20
NEWBURY	\$898.00	\$998.00	\$998.00	\$417.00	\$394.00	\$394.00	\$376.00	\$367.00	\$336.00	\$304.00	\$300.00	\$304.00	\$304.00	\$304.00
NEWCASTLE	\$104.40	\$102.56	\$293.04	\$293.04	\$252.60	\$252.60	\$252.60	\$252.60	\$252.60	\$252.60	\$252.60	\$252.60	\$230.00	\$230.21
NEWFIELDS VD	\$400.00	\$567.00	\$412.00	\$567.00	\$551.00	\$440.00	\$440.00	\$270.00	\$542.00	\$270.00	\$366.00	\$366.00	\$275.00	\$200.00
NEWINGTON	\$1,078.00	\$954.00	<i>\$1,038.00</i>	\$1,038.00	\$993.48	\$1,398.06	\$1,440.00	\$1,680.00	\$400.00	\$400.00	\$400.00	\$100.00	\$100.00	\$100.00
NEWMARKET	\$494.40	\$494.40	\$494.40	\$462.00	\$372.00	\$384.00	\$372.00	\$348.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00
NEWPORT	\$528.30	\$503.10	\$503.10	\$457.20	\$415.80	\$415.80	\$415.80	\$415.80	\$415.80	\$415.80	\$415.80	\$415.80	\$415.80	\$415.80
NORTH CONWAY	\$837.00	\$837.00	\$837.00	\$837.00	\$837.00	\$837.00	\$837.00	\$556.80	\$570.00	-	-	-	-	-
NORTHFIELD	\$314.40	\$154.00	\$156.00	\$684.56	\$237.06	\$187.40	\$197.00	\$397.72	\$170.49	\$159.94	\$159.94	\$160.45	\$214.13	\$190.00
NORTHUMBERLAND	\$368.00	\$360.00	<i>\$240.00</i>	\$240.00	\$200.00	\$200.00	\$200.00	\$200.00	\$120.00	\$90.00	\$90.00	\$90.00	\$86.00	\$81.00
OSSIPEE CENTER	\$856.00	\$856.00	\$856.00	\$856.00	\$876.00	\$876.00	\$486.00	\$556.00	\$546.00	\$190.00	\$190.00	\$190.00	\$190.00	\$190.00
PEMBROKE	\$379.00	\$379.00	\$379.00	\$353.80	\$271.00	\$262.00	\$262.00	\$246.00	\$238.00	\$175.50	\$175.50	\$185.50	\$215.50	\$215.50
PETERBOROUGH	\$438.36	\$399.00	<i>\$301.92</i>	\$301.92	\$302.69	\$301.90	\$301.90	\$277.44	\$249.48	\$252.67	\$252.00	\$252.00	\$252.67	\$252.00
PIERMONT	\$725.00	\$725.00	\$745.00	\$667.00	\$633.00	\$587.00	\$587.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00
PITTSBURG	\$125.00	\$125.00	\$125.00	\$125.00	\$125.00	\$125.00	\$125.00	\$125.00	\$125.00	\$125.00	\$125.00	\$125.00	\$125.00	\$125.00
PITTSFIELD	\$560.00	\$560.00	\$560.00	\$560.00	\$536.00	\$560.00	\$440.68	\$440.68	\$285.20	\$285.20	\$285.00	\$285.20	\$210.00	\$230.00
PLYMOUTH VD	\$387.00	\$387.00	\$387.00	\$387.00	\$387.00	\$343.80	\$343.80	\$343.80	\$289.80	\$249.30	\$249.30	\$249.30	\$249.30	\$250.00
PORTSMOUTH	\$564.00	\$564.00	\$564.00	\$552.00	\$534.00	\$534.00	\$525.00	\$516.00	\$480.00	\$423.60	\$424.73	\$282.00	\$283.00	\$283.00
ROCHESTER	\$514.80	\$453.01	\$470.00	\$402.00	\$388.80	\$388.80	\$375.60	\$355.20	\$351.60	\$351.60	\$331.20	\$331.20	\$315.00	\$315.00
ROLLINSFORD	\$520.00	\$520.00	\$520.00	\$480.00	\$480.00	\$480.00	\$480.00	\$480.00	\$440.00	\$440.00	\$440.00	\$440.00	\$440.00	\$440.00
RYE	\$456.00	\$360.00	\$270.00	\$288.00	\$288.00	\$288.00	\$613.80	\$587.68	\$524.28	\$660.00	\$605.00	\$408.00	\$745.36	\$845.00
SALEM	\$264.00	\$264.00	\$275.60	\$264.00	\$264.00	\$263.60	\$257.60	\$257.60	\$257.60	\$257.60	\$329.60	\$329.60	\$330.45	\$355.00
SANBORNTON	\$146.07	\$158.53	\$157.76	\$156.45	\$149.50	\$146.50	\$121.00	\$121.00	\$84.00	\$91.82	\$126.00	\$91.82	\$91.82	\$91.82
SANDWICH	\$629.06	\$426.00	\$426.00	\$414.00	\$453.00	\$405.00	\$396.00	\$356.04	\$315.00	\$408.00	\$336.00	\$423.00	\$453.00	\$444.00
SEABROOK	\$60.00	\$60.00	\$60.00	\$60.00	\$60.00	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01	\$0.01
SOMERSWORTH	\$348.00	\$262.80	\$262.80	\$238.80	\$269.00	\$217.20	\$217.20	\$217.20	\$221.20	\$221.20	\$204.40	\$204.40	\$204.80	\$204.40
STEWARTSTOWN	\$219.00	\$166.50	\$166.50	\$166.50	\$166.50	\$166.50	\$186.50	\$186.50	\$186.50	\$186.50	\$186.50	\$186.50	\$180.50	\$302.68
STRATFORD VILLAGE	\$508.00	\$421.00	\$421.00	\$349.00	\$230.00	\$230.00	\$230.00	\$198.00	\$173.00	\$139.00	\$139.00	\$120.00	\$120.00	\$120.00
SUNAPEE	\$300.00	\$290.00	<i>\$290.00</i>	\$290.00	\$290.00	\$290.00	\$285.00	\$263.00	\$263.00	\$190.00	\$180.00	\$180.00	\$165.00	\$165.00
SWANZEY	\$248.00	\$248.00	\$248.00	\$248.00	\$248.00	\$224.00	\$220.00	\$218.19	\$154.00	\$124.00	\$104.00	\$116.00	\$119.64	\$120.73
TILTON	\$300.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.00	\$240.64	\$240.00	\$240.64
TROY	\$672.00	\$672.00	\$672.00	\$672.00	\$420.00	\$240.00	\$180.00	\$168.00	\$180.00	\$135.00	\$135.00	\$175.50	\$224.10	\$246.00
WAKEFIELD	\$617.88	\$681.57	\$657.22	\$565.44	\$682.19	\$702.08	\$540.50	\$465.37	\$471.87	\$463.00	\$510.00	\$497.00	\$522.00	\$394.00
WALPOLE	\$360.00	\$360.00	\$312.00	\$348.00	\$312.00	\$312.00	\$360.00	\$360.00	\$312.00	\$312.00	\$312.00	\$394.00	\$264.71	\$342.91
WARNER	\$790.00	\$789.00	\$789.00	\$789.00	\$580.00	\$580.00	\$580.00	\$580.00	\$580.00	\$595.00	\$580.00	\$580.00	\$737.00	\$506.70
WATERVILLE VALLEY	\$327.75	\$318.20	\$260.00	\$204.00	\$204.00	\$214.20	\$204.00	\$204.00	\$163.80	\$163.80	\$163.80	\$163.80	\$163.80	\$202.04
WEARE	\$324.33	\$216.00	<i>\$216.00</i>	\$216.00	\$329.76	\$216.93	\$220.70	\$378.88	\$338.29	\$234.15	\$402.99	\$444.37	\$276.17	\$228.00
WHITEFIELD	\$206.40	\$135.00	\$165.00	\$165.00	\$165.00	\$206.40	\$206.40	\$110.00	\$110.00	\$110.00	\$110.00	\$110.00	\$110.00	\$110.00
WILTON	\$260.00	\$225.00	\$200.00	\$190.00	\$200.00	\$240.00	\$240.00	\$210.00	\$250.00	\$265.00	\$250.00	\$230.00	\$230.00	\$230.00
WINCHESTER	\$504.80	\$368.40	\$368.00	\$368.40	\$368.00	\$368.00	\$368.40	\$315.00	\$315.00	\$315.00	\$315.00	\$315.00	\$240.00	\$240.00
WOLFEBORO	\$797.00	\$797.00	\$797.00	\$797.00	\$857.00	\$857.00	\$857.00	\$857.00	\$857.00	\$803.00	\$785.00	\$740.00	\$597.00	\$485.00
WOODSTOCK	\$185.00	\$185.00	\$185.00	\$175.00	\$155.00	\$155.00	\$145.00	\$145.00	\$135.00	\$135.00	\$135.00	\$135.00	\$135.00	\$135.00
WOODSVILLE	\$365.10	\$374.33	<i>\$325.50</i>	\$325.50	\$325.50	\$325.50	\$325.50	\$325.50	\$325.50	\$325.50	\$325.50	\$235.50	\$235.50	\$202.25
STATE AVERAGE	\$426.51	\$406.10	\$398.26	\$389.72	\$361.43	\$350.52	\$350.82	\$324.69	\$310.12	\$294.18	\$292.52	\$282.82	\$278.28	\$262.91
BENCHMARK	\$511.00	\$487.00	\$477.00	\$467.00	\$433.00	\$420.00	\$420.00	\$389.00	\$372.00	\$353.00	\$351.00	\$338.00	\$334.00	\$318.00

Annualized sewer user charges are based on a presumed residential water consumption / wastewater generation of 90,000 gallons (12,000 CF) per year, or 240 gallons/day

Communities reporting \$0.01 residential user charge (Hampton; Lincoln) employ an Ad Valorem user charge system; i.e. wastewater costs are applied to residential property tax

STATE AVERAGE is the average sewer user charge across NH communities, with highest/lowest values and Ad Valorem communities excluded

BENCHMARK value is 120% of Statewide Average value. Communities with residential sewer user charges in excess of the Benchmark value are potentially eligible for an additional

10% State Aid Grant funding for municipal water pollution control projects.

NHDES Watershed Management Bureau, Shellfish Program
Fecal Coliform Levels, Monitoring Site T10, Downstream of Peirce Island WWTP
Nash, C. (2001)

site	sampledate	sumptime	wattemp oC	salinity ppt	do mg/L	ph s.u.	estfc #/100mL	truefc #/100mL	prdnfct	tidsitec	lowtideh	prevtideh	rainstn	total rain inches	tidestage	corrtime
T10	5/4/1999	7:45 AM	9	30	nodata	7.93	130	130	8:19 AM		0.3	9.6	Greenland	0.71	L	8:39 AM
T10	5/10/1999	8:26 AM	11	28	nodata	7.22	1.8	1.8	1:09 PM		0.7	9	Greenland	0.73	ML	1:29 PM
T10	5/18/1999	12:30 PM	12	30	nodata	7.78	2	2	7:59 AM		-1.8	11.8	Greenland	0	MH	8:19 AM
T10-dup	5/18/1999	12:30 PM	12	30	nodata	7.91	<1.8	<1.8	7:59 AM		-1.8	11.8	Greenland	0	MH	7:59 AM
T10	6/8/1999	10:45 AM	11.5	31	nodata	8.06	23	23	12:33 PM		0.4	9.6	Greenland	0	L	12:53 PM
T10	6/21/1999	10:40 AM	15.5	31	nodata	8.05	17	17	12:24 PM		0.7	9.2	Greenland	0	L	12:44 PM
T10	6/22/1999	11:24 AM	14	32	nodata	7.97	13	13	1:20 PM		1	9.2	Greenland	0	L	1:40 PM
T10	7/19/1999	9:09 AM	10	22	nodata	7.91	23	23	10:49 AM		0.4	9.4	Greenland	0.88	L	11:09 AM
T10	8/17/1999	8:28 AM	15.2	33	nodata	7.87	170	170	10:07 AM		0.7	9.2	Greenland	0.14	L	10:27 AM
T10	9/28/1999	5:55 AM	15	30	nodata	7.7	33	33	7:29 AM		-0.7	10.6	Greenland	0.1	L	7:49 AM
T10	10/13/1999	7:47 AM	13	32	nodata	7.79	170	170	8:06 AM		1	9.1	Greenland	0.38	L	8:26 AM
T10	11/1/1999	12:20 PM	12.5	28	nodata	7.87	49	49	11:13 AM		0.9	9.2	Greenland	0	L	11:33 AM
T10	11/15/1999	10:00 AM	9	29	nodata	7.98	11	11	9:28 AM		1.9	8.1	Greenland	0.84	L	9:48 AM
T10	11/29/1999	8:26 AM	9	15	nodata	7.64	79	79	9:47 AM		0.6	9.5	Greenland	0.49	L	10:07 AM
T10	12/13/1999	7:15 AM	5	30	nodata	7.85	33	33	8:07 AM		1.5	8.3	Greenland	0	L	8:27 AM
T10	12/20/1999	12:35 PM	4	32	nodata	7.94	<1.8	<1.8	2:39 PM		-1	9.7	Greenland	0	L	2:59 PM
T10	12/28/1999	8:03 AM	2	32	nodata	8.08	8.3	8.3	9:24 AM		0.3	9.6	Greenland	0	L	9:44 AM

Note: See summary statistics Feb 1988 to Dec 1999 top of table.