

JAN 04 1991

ANNUAL REPORT

1988 - 1989

PUBLIC SERVICE OF NEW HAMPSHIRE

MERRIMACK GENERATING STATION

ENVIRONMENTAL MONITORING PROGRAM

(NPDES PERMIT NO. NH0001465)

During the year, there were two (2) major releases of the water at Merrimack. These are listed below.

This report covers the (1) month of monitoring activity at the above generating station for the four (4) monitoring stations. The report period is from 1988 through July 1989.

Initial data output also occurred during the year that were of larger duration. A number of the data output is identified below. Activities include extensive protection, lightning strikes and subsequent outage types. The facility burn out and ground fault equipment along with associated hardware. Additionally, the equipment suffered from transient outages and other types of equipment by the manufacturer. Diagnostic testing and maintenance as well as perform the same function in the equipment. This document provides a complete listing of major equipment and their with more detailed explanations.

Backup monitoring systems were used to collect data when the primary system was out of service. However, the maximum and minimum data points for temperature were reported and reported for that day. The substitution of a backup or spare system equipment installed by station personnel to report the recording gap should during the month. When the station was in service, the gap sample data is used to generate the report. Data points are provided in section IV, Part B.

I. EXECUTIVE SUMMARY

PSNH operates four (4) environmental monitoring stations. Two of the monitoring stations record river temperature only. These are N-10 and S-4, located north and south of the plant respectively. A monitoring station at the Unit #2 intake (N-5) records dissolved oxygen and pH of the incoming river water. Finally, a monitoring station at the outfall of the discharge canal (S-0) records dissolved oxygen, pH and temperature. Figure 1 displays station locations.

This report covers twelve (12) months of continuous monitoring of the above parameters at the four (4) monitoring stations. The report period is June 1988 through May 1989.

During the year, there were five (5) major outages of ten days or longer. These are summarized as follows:

<u>STATION</u>	<u>PARAMETER</u>	<u>START</u>	<u>STOP</u>	<u>CAUSE</u>
S-0	D.O.	6/15	6/29	FAILED PROBE AND MOTHERBOARD.
S-0	D.O.	7/6	9/9	MULTIPLE FAILURES.
S-0	ALL	8/9	8/19	FAILED DATALOGGER.
N-5	pH	6/1	6/11	FAILED PROBE HOUSING.
S-4	TEMP	7/10	7/20	FAILED PROBE.

Several data outages also occurred during the year that were of lesser duration. A recurring cause of the data outages is electrical storm activity. Despite extensive protection, lightning strikes and subsequent voltage surges frequently burn out probe and circuit board components along with associated hardware. Additionally, time worn equipment suffers from frequent outages and often is no longer supported by the manufacturer. Diagnostic testing and acquisition of component parts that perform the same function is time consuming. Table 2. provides a complete listing of major equipment malfunctions with more detailed explanations.

Backup monitoring systems were used to collect substitute data whenever the installed equipment was out of service. Whenever possible, the minimum and maximum data points for temperature and pH were recovered and reported for that day. The substitute data is provided by either backup equipment maintained by station personnel or by operators recording grab samples during routine rounds. When the stations are in service, the grab sample data is used to confirm the primary data readings. More specifics are provided in Section IV. Part D.

Compliance with NPDES permit limits were maintained throughout the year. Table 1. provides a summary of parameter average data on a monthly basis. pH readings at Station S-0 often fell below 6.5 SU due to naturally occurring conditions. Table 3. summarizes the pH data for Stations N-5 and S-0. On occasion, slight pH differentials beyond normal were recorded between monitoring stations. This is generally caused by probe fouling.

It is important to note that the record established by 15 years of ecological studies and environmental monitoring at Merrimack Station demonstrates that the cooling water discharge has not adversely impacted the indigenous community of aquatic life in the river. Dissolved oxygen levels have rarely fallen below the State of New Hampshire Class B water quality standard at either Station S-0 or the downstream areas of Hooksett Pond. pH levels reflect ambient conditions and, along with temperature readings, closely track historical trends. Unaffected passageways below the thermal plume have been established and shown to be sufficient for fish migration.

III. SYSTEM DESCRIPTION

A. General

The system consists of four monitoring stations located as shown in Figure 1. The parameters measured at each station are as follows:

<u>STATION</u>	<u>PARAMETERS</u>		
	<u>TEMP.</u>	<u>D.O.</u>	<u>pH</u>
N-10	X	N/A	N/A
N-5	N/A	X	X
S-0	X	X	X
S-4	X	N/A	N/A

Stations N-5 and S-0 are kept operational year-round. Stations N-10 and S-4 are operational on a seasonal basis.

B. Installed Equipment

Stations N-10 & S-4

The temperature monitoring equipment at N-10 & S-4 consists of the following basic components:

- o YSI temperature probe with 250 feet of cable (installed in river)
- o YSI Thermivolt thermometer
- o Hagan temperature transmitter
- o Radio transmitter (RT)
- o CR 21 data logger
- o Panasonic cassette recorder
- o Rexnord Model 1400 Isolator

With the exception of the temperature probes, all of the above equipment is installed within an equipment enclosure. The temperature probes, located near midstream, are suspended 6 - inches below the water surface of the river on buoys which are anchored to the bottom of the river.

The radio transmitter provides a signal to a Fisher Porter Computer in the control room at the power station. The CR 21 data logger and cassette recorder are used for data storage.

Station N-5

The installed equipment at Station N-5 consists of the following basic components:

- o Instrument panel enclosure with the following equipment:
 - Beckman D.O. analyzer
 - Rexnord pH analyzer
 - CR 21 data logger
 - Panasonic cassette recorder
 - Rexnord Model 1400 Isolator
- o Field Probes
 - Beckman D.O. probe
 - Rexnord pH probe

The instrument panel enclosure is mounted in the screen house and the probes are mounted on the railing of a catwalk on the face of the Unit #2 intake structure. The probes are submerged 6-inches below the water surface in the middle of the inlet. The CR 21 data logger and cassette recorder are used for data storage. A Beckman 7002 Oxygen Monitor was installed in April of 1989 and put in service in June, replacing the Rexnord Dissolved Oxygen Monitor.

Station S-0

The installed equipment at Station S-0 consists of the following basic components:

- o Two instrument panel enclosures
 - IP-1
 - YSI thermivolt thermometer
 - Hagan temperature transmitter
 - Radio transmitter (RT)
 - IP-2
 - Beckman D.O. analyzer
 - Rexnord pH analyzer
 - CR 21 data logger
 - Panasonic cassette recorder
 - Rexnord Model 1400 Isolator

o Field Probes

- Beckman D.O. probe
- Rexnord pH probe
- YSI temperature probe

With the exception of the field probes, all of the above equipment is housed within an enclosure. The field probes are mounted on the railing of a floating bridge located near the end of the cooling water discharge canal. The probes are positioned in the middle of the canal, 6-inches below the water surface. The CR 21 logger and cassette recorder are used for data storage. A Beckman 7002 Oxygen Monitor was installed in October of 1986, replacing the Rexnord Dissolved Oxygen Monitor.

V. Annual Summary

pH

Permit compliance was maintained. Station-to-Station data was generally consistent with past seasonal fluctuations. Occasional drifting due to probe fouling was controlled by weekly cleaning except during periods of high flow. Values below 6.5 SU were frequently recorded during the year due to ambient conditions (see Table 3.).

The monthly summaries report unusually high maximum pH values at Station N-5 during July 6-17 and August 6-24. A close review of the data revealed that the elevated readings were isolated spikes during each day. Because Station N-5 is not free-floating, it is subject to level fluctuations in the Merrimack River. The short-lived pH excursions were most likely caused by exposure of the probe to atmosphere during extremely low river levels. The data was retained because it is not definite that all the spikes were due to atmospheric exposure. PSNH initiated a change in the operation of the adjacent hydro facilities to maintain a sufficient level at Merrimack Station.

Temperature

Power spray modules were operated in accordance with the permit conditions. Probes could not be installed in 1988 at Stations S-4 and N-10 when the ambient river water temperature reached 40°F because high river flows and floating debris created an unsafe condition. The probes were installed on June 2 and 3 when the river flows returned to safer levels. The probes were removed from service on November 9 because field personnel responsible for the maintenance of the temperature system determined that probe loss was imminent if they were left in service due to existing river conditions. In 1986 a probe became frozen in an overnight icing of the river north of the plant and was subsequently lost. The S-4 and N-10 probes were reinstalled for 1989 operation on April 18 and May 1, respectively. Backup data for Station N-10 in April was gathered from the unit condenser operation logs. PSNH requested the temperature criteria be increased to 50°F in the May, 1990 NPDES permit reapplication to avoid the unsafe conditions and icing problems.

Dissolved Oxygen

Levels consistently achieved Class B water quality standards. Unfortunately, repeated lightning strikes caused extended outages at Station S-0. Sporadic backup data was collected using the Hach titration kit.

The probes were not installed in 1988 until June when the river dropped to a level that allowed safe access to the Station N-5 mounting rod. They were removed from service in December. The S-0 probe was installed for 1989 operation on April 21; however, the N-5 probe could not be connected until June due to high waters. PSNH requested the temperature criteria be increased in the May 1990 reapplication to avoid unsafe conditions and elevated river levels.

TABLE 1. SUMMARY OF MONTHLY AVERAGE DATA

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	<u>Month</u>	<u>N-10 Temp.</u>	<u>N-5 D.O.</u>	<u>pH</u>	<u>Temp.</u>	<u>S-0 D.O.</u>	<u>pH</u>	<u>S-4 Temp.</u>
First Quarter	June	20.9	10.7	6.6	28.1	7.0	6.7	22.4
	July	24.5	8.3	6.5	33.8	6.7	6.7	28.1
	August	26.6	8.7	7.1	33.5	7.3	6.9	30.0
Second Quarter	Sept.	15.7	8.8	6.6	28.2	8.8	6.8	23.3
	Oct.	10.1	9.4	6.6	22.4	10.0	6.7	17.4
	Nov.	5.8	10.9	6.5	17.3	10.6	6.5	8.2
Third Quarter	Dec.	NA	12.4	6.6	11.9	12.1	6.8	NA
	Jan.	NA	NA	6.6	12.7	NA	6.9	NA
	Feb.	NA	NA	6.7	14.6	NA	6.8	NA
Fourth Quarter	March	NA	NA	7.0	15.3	NA	6.9	NA
	April	6.2	NA	6.8	16.2	9.6	6.7	8.9
	May	12.5	NA	6.7	22.9	8.5	6.9	15.0

Temperature Units = Degrees Centigrade

Dissolved Oxygen Units = mg/liter

pH Units = Standard Units

NA = Station not in service during winter months

TABLE 2. SUMMARY OF MAJOR EQUIPMENT MALFUNCTIONS

<u>DATE</u>	<u>STATION</u>	<u>PARAMETERS</u>	<u>CAUSE/REMEDIAL ACTION</u>
6/1 - 6/11	N-5	pH	Failed reference electrode and temperature compensator due to pH probe housing leakage. Replaced housing and components.
6/12 - 6/20	S-4	Temp.	Failed datalogger program due to battery leakage. Replaced batteries.
6/15 - 6/29	S-0	D.O.	Failed probe and motherboard replaced with backup components.
6/21 - 6/27	S-0	Temp. pH	Failed datalogger program due to lightning strike. Reprogrammed.
7/6 - 9/9	S-0	D.O.	Failed probe, two motherboards, datalogger, wire leads, associated components. Extended outage caused by a succession of lightning strikes on 6/2, 6/20, 7/18, 8/3, and 8/19. Replaced components and hardware as necessary.
7/10 - 7/20	S-4	Temp.	Failed waterproof jacket on the probe cable produced unusable data. Replaced probe cable.
8/9 - 8/19	S-0	Temp. pH	Failed datalogger program due to a lightning strike. Failed temperature controller. Replaced controller and reprogrammed.
8/14 - 8/23	N-10	Temp.	Failed probe due to lightning strike. Replaced probe cable.
8/20 - 8/24	S-0	Temp. pH	Wire leads at bridge junction box burned by lightning strike. Stripped, relugged, and reconnected.

8/24 - 8/31	N-5	ALL	Datalogger is removed and placed at S-0. Datalogger at S-0 failed due to lightning strike. Spare datalogger is out for repair due to lightning damage.
11/14 - 11/21	S-0	ALL	Failed to reset the datalogger to the record mode.
1/6 - 1/12	N-5	pH	Datalogger program for pH parameter is keyed incorrectly.

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MONTHLY SUMMARY REPORT FOR JUN 1988

STATION:ZERO

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUN 88						0
2 JUN 88	7.475	1400	7.475	7.475	1400	1
3 JUN 88						0
4 JUN 88	7.000	1315	7.000	7.000	1315	1
5 JUN 88	6.070	1000	6.067	6.065	1015	2
6 JUN 88	6.305	2045	6.223	6.088	2330	15
7 JUN 88	6.527	1245	6.283	6.060	0600	74
8 JUN 88	6.350	1200	6.252	6.064	1545	23
9 JUN 88						0
10 JUN 88	7.660	1515	7.660	7.660	1515	1
11 JUN 88	7.500	1530	7.292	6.048	2015	21
12 JUN 88	6.898	2030	6.506	6.030	2015	46
13 JUN 88	7.264	1615	6.556	6.002	0100	55
14 JUN 88	6.810	1330	6.318	6.001	1715	69
15 JUN 88	6.345	0030	6.118	6.008	0745	17
16 JUN 88						0
17 JUN 88						0
18 JUN 88	7.000	1115	7.000	7.000	1115	1
19 JUN 88						0
20 JUN 88	7.012	1345	7.012	7.012	1345	1
21 JUN 88						0
22 JUN 88	8.000	1015	8.000	8.000	1015	1
23 JUN 88						0
24 JUN 88	7.500	1100	7.500	7.500	1100	1
25 JUN 88						0
26 JUN 88						0
27 JUN 88	8.000	1315	8.000	8.000	1315	1
28 JUN 88	8.000	0945	8.000	8.000	0945	1
29 JUN 88	9.190	1230	8.021	7.469	2315	47
30 JUN 88	8.660	0745	7.519	6.184	2015	79
AVERAGE	7.278		7.040	6.783		
STD DEV	0.818		0.707	0.800		

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MONTHLY SUMMARY REPORT FOR JUL 1988

STATION: ZERO

PARAMETER: DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUL 88	7.318	0615	6.324	5.648	2000	96
2 JUL 88	6.838	0945	5.981	5.387	2230	86
3 JUL 88	6.495	0830	5.906	5.388	0015	69
4 JUL 88	6.216	0930	5.618	5.294	2045	75
5 JUL 88	6.510	1030	5.929	5.414	0530	59
6 JUL 88	7.792	1345	6.110	5.877	1130	24
7 JUL 88	-----	----	-----	-----	----	0
8 JUL 88	-----	----	-----	-----	----	0
9 JUL 88	-----	----	-----	-----	----	0
10 JUL 88	-----	----	-----	-----	----	0
11 JUL 88	-----	----	-----	-----	----	0
12 JUL 88	-----	----	-----	-----	----	0
13 JUL 88	-----	----	-----	-----	----	0
14 JUL 88	-----	----	-----	-----	----	0
15 JUL 88	-----	----	-----	-----	----	0
16 JUL 88	-----	----	-----	-----	----	0
17 JUL 88	-----	----	-----	-----	----	0
18 JUL 88	7.000	1300	7.000	7.000	1300	1
19 JUL 88	-----	----	-----	-----	----	0
20 JUL 88	7.000	0900	7.000	7.000	0900	1
21 JUL 88	-----	----	-----	-----	----	0
22 JUL 88	7.000	1045	7.000	7.000	1045	1
23 JUL 88	-----	----	-----	-----	----	0
24 JUL 88	-----	----	-----	-----	----	0
25 JUL 88	7.866	1630	7.866	7.866	1630	1
26 JUL 88	8.020	1415	7.181	6.025	1730	4
27 JUL 88	8.050	1700	7.179	6.307	2230	8
28 JUL 88	8.090	1830	7.436	6.723	1730	5
29 JUL 88	7.662	1300	7.231	6.968	1230	3
30 JUL 88	7.873	1230	7.391	6.910	1215	2
31 JUL 88	7.524	2130	6.791	6.145	2215	4
AVERAGE	7.328		6.746	6.309		
STD DEV	0.616		0.672	0.778		

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MONTHLY SUMMARY REPORT FOR AUG 1988

STATION:ZERO

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM --- (PARAM) TIME	DAILY AVERAGE	--- MINIMUM --- (PARAM) TIME	NO INT.
1 AUG 88	7.428 1515	6.891	6.055 2300	6
2 AUG 88	7.115 1200	6.753	6.392 1145	2
3 AUG 88	7.436 0000	6.723	6.074 0030	3
4 AUG 88	7.249 0345	6.817	6.324 0430	7
5 AUG 88	7.510 1045	6.737	6.085 0430	6
6 AUG 88	6.969 0415	6.658	6.141 0445	4
7 AUG 88	7.539 0315	7.084	6.630 0330	2
8 AUG 88	-----	-----	-----	0
9 AUG 88	7.950 0615	7.446	6.894 1045	4
10 AUG 88	-----	-----	-----	0
11 AUG 88	-----	-----	-----	0
12 AUG 88	-----	-----	-----	0
13 AUG 88	-----	-----	-----	0
14 AUG 88	-----	-----	-----	0
15 AUG 88	-----	-----	-----	0
16 AUG 88	8.000 1345	8.000	8.000 1345	1
17 AUG 88	-----	-----	-----	0
18 AUG 88	-----	-----	-----	0
19 AUG 88	-----	-----	-----	0
20 AUG 88	-----	-----	-----	0
21 AUG 88	-----	-----	-----	0
22 AUG 88	-----	-----	-----	0
23 AUG 88	-----	-----	-----	0
24 AUG 88	9.000 1145	9.000	9.000 1145	1
25 AUG 88	-----	-----	-----	0
26 AUG 88	-----	-----	-----	0
27 AUG 88	-----	-----	-----	0
28 AUG 88	-----	-----	-----	0
29 AUG 88	-----	-----	-----	0
30 AUG 88	-----	-----	-----	0
31 AUG 88	8.500 1400	7.722	6.832 1330	3
AVERAGE	7.700	7.258	6.766	
STD DEV	0.614	0.733	0.934	

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MONTHLY SUMMARY REPORT FOR SEP 1988

STATION:ZERO

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 SEP 88	-----	-----	-----	-----	-----	0
2 SEP 88	-----	-----	-----	-----	-----	0
3 SEP 88	8.600	1315	7.589	7.024	1200	9
4 SEP 88	7.744	2230	7.531	7.358	2345	6
5 SEP 88	8.710	1500	6.794	6.025	0600	31
6 SEP 88	-----	-----	-----	-----	-----	0
7 SEP 88	-----	-----	-----	-----	-----	0
8 SEP 88	-----	-----	-----	-----	-----	0
9 SEP 88	9.540	1845	9.185	7.807	1345	39
10 SEP 88	10.200	0700	9.638	9.110	0930	96
11 SEP 88	10.690	1230	10.032	9.340	0345	81
12 SEP 88	10.510	1015	9.176	8.060	1400	96
13 SEP 88	8.930	0715	8.464	8.100	1815	96
14 SEP 88	8.870	0430	8.537	8.020	2045	96
15 SEP 88	9.800	1330	9.424	8.740	0645	57
16 SEP 88	10.110	0730	9.833	9.570	1845	89
17 SEP 88	10.050	0600	9.757	9.580	2030	79
18 SEP 88	10.170	1100	9.544	9.230	1815	96
19 SEP 88	9.680	1045	9.390	9.220	1900	79
20 SEP 88	9.400	0615	9.238	9.100	2330	96
21 SEP 88	9.180	1515	9.055	8.940	1530	79
22 SEP 88	9.430	1115	8.998	8.160	2015	79
23 SEP 88	8.700	0715	8.193	7.812	1830	91
24 SEP 88	8.720	1100	8.286	7.814	2000	81
25 SEP 88	8.640	0915	8.280	7.980	2330	96
26 SEP 88	8.910	1500	8.183	7.617	2100	96
27 SEP 88	8.230	0915	7.948	7.506	2300	96
28 SEP 88	10.000	1530	8.791	7.589	0015	79
29 SEP 88	9.770	1215	8.670	7.912	0100	96
30 SEP 88	9.440	1215	9.048	8.660	2045	96
AVERAGE	9.361		8.783	8.251		
STD DEV	0.745		0.802	0.877		

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STATION:ZERO

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 OCT 88	8.970	0630	8.707	8.250	2130	96
2 OCT 88	9.200	1745	8.399	8.110	0645	96
3 OCT 88	8.630	0900	8.328	8.110	2200	96
4 OCT 88	8.450	0915	8.138	7.735	2030	96
5 OCT 88	8.230	0730	8.017	7.731	0130	96
6 OCT 88	8.390	1500	8.033	7.819	0445	96
7 OCT 88	10.520	1230	9.228	7.980	0145	96
8 OCT 88	11.750	2100	10.650	10.100	0515	96
9 OCT 88	11.340	2245	10.931	10.590	0845	96
10 OCT 88	12.260	1515	11.550	11.000	0030	96
11 OCT 88	11.390	1900	11.022	10.490	1130	96
12 OCT 88	11.420	1615	11.240	10.870	1030	96
13 OCT 88	11.240	2000	11.014	10.650	0930	80
14 OCT 88	11.160	0315	10.790	10.250	1415	96
15 OCT 88	10.930	2200	10.323	10.020	2000	95
16 OCT 88	10.710	1815	10.143	9.830	1000	91
17 OCT 88	10.670	2100	10.201	9.780	2345	96
18 OCT 88	9.990	0330	9.750	9.490	1930	96
19 OCT 88	10.160	2315	9.784	9.500	0800	81
20 OCT 88	10.150	1715	9.834	9.570	1830	96
21 OCT 88	10.780	1315	10.119	9.280	0845	65
22 OCT 88	11.380	2345	10.892	10.250	0045	84
23 OCT 88	11.470	0045	10.786	10.420	1800	87
24 OCT 88	10.950	0200	10.584	10.270	0900	96
25 OCT 88	10.650	0515	10.275	9.760	1900	52
26 OCT 88	10.870	0400	10.449	9.640	1100	46
27 OCT 88	11.120	1045	10.865	10.480	2045	77
28 OCT 88	11.160	0245	10.098	9.360	1900	50
29 OCT 88	10.780	0815	10.061	9.660	0000	78
30 OCT 88	10.810	1315	10.192	9.960	0000	89
31 OCT 88	10.560	0545	10.169	9.780	1330	87
AVERAGE	10.519		10.018	9.572		
STD DEV	1.053		1.000	0.985		

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MONTHLY SUMMARY REPORT FOR NOV 1988

STATION: ZERO

PARAMETER: DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 NOV 88	10.590	0630	10.175	9.680	1215	95
2 NOV 88	10.440	0945	9.625	9.190	2315	88
3 NOV 88	11.470	1115	10.210	9.060	2015	94
4 NOV 88	12.550	2315	10.017	9.030	0130	45
5 NOV 88	12.720	0545	12.366	11.240	1900	96
6 NOV 88	12.380	0415	11.786	11.130	2330	81
7 NOV 88	11.900	2345	11.328	10.190	1230	96
8 NOV 88	12.120	0315	11.576	10.780	2330	81
9 NOV 88	12.480	1015	11.497	11.040	2345	96
10 NOV 88	12.130	1045	11.405	10.550	0915	88
11 NOV 88	11.780	0600	11.208	10.500	2315	96
12 NOV 88	11.770	0945	11.173	10.480	1745	80
13 NOV 88	11.740	0345	11.164	10.580	0815	93
14 NOV 88	11.900	0815	11.218	10.670	1100	57
15 NOV 88	-----	-----	-----	-----	-----	0
16 NOV 88	-----	-----	-----	-----	-----	0
17 NOV 88	-----	-----	-----	-----	-----	0
18 NOV 88	-----	-----	-----	-----	-----	0
19 NOV 88	-----	-----	-----	-----	-----	0
20 NOV 88	-----	-----	-----	-----	-----	0
21 NOV 88	12.830	0515	11.239	10.100	2230	85
22 NOV 88	10.640	1100	9.956	8.830	2015	96
23 NOV 88	10.710	1630	9.603	8.810	0400	96
24 NOV 88	11.190	1045	10.215	8.370	0245	80
25 NOV 88	11.300	1045	10.548	9.210	2145	76
26 NOV 88	9.900	1115	9.410	9.020	1230	84
27 NOV 88	10.320	1515	9.336	8.860	2045	96
28 NOV 88	10.520	1230	9.483	8.610	0500	81
29 NOV 88	10.850	1345	10.071	8.880	0245	96
30 NOV 88	11.390	1045	10.837	10.430	0545	96
AVERAGE	11.484		10.643	9.802		
STD DEV	0.839		0.860	0.920		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR DEC 1988

STATION:ZERO

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 DEC 88	10.900	1330	10.605	10.140	0845	96
2 DEC 88	11.200	1030	10.631	10.200	1515	86
3 DEC 88	10.890	0000	10.551	10.350	1930	96
4 DEC 88	10.720	0815	10.512	10.320	2000	76
5 DEC 88	10.790	1000	10.262	9.040	1145	96
6 DEC 88	10.790	0515	10.051	8.700	0145	88
7 DEC 88	10.580	1615	9.722	8.660	0830	96
8 DEC 88	13.000	1530	11.327	9.600	0000	84
9 DEC 88	14.320	1515	12.962	11.540	0000	76
10 DEC 88	13.160	0115	12.935	12.650	1215	96
11 DEC 88	13.280	0215	12.910	12.450	2000	86
12 DEC 88	13.240	0900	12.719	10.560	1830	96
13 DEC 88	13.240	0445	12.861	11.920	1900	86
14 DEC 88	13.200	0230	12.443	10.860	1745	96
15 DEC 88	13.430	2300	11.916	9.820	0815	82
16 DEC 88	14.230	0645	13.438	11.500	1745	81
17 DEC 88	13.570	1615	13.171	12.200	0715	96
18 DEC 88	13.760	1900	13.261	12.780	0715	86
19 DEC 88	13.560	2345	11.564	10.300	0930	95
20 DEC 88	14.000	0430	12.881	12.090	0845	96
21 DEC 88	13.560	2315	12.959	12.100	0200	96
22 DEC 88	13.980	1445	13.346	12.310	1930	92
23 DEC 88	13.240	2315	12.675	11.840	1745	96
24 DEC 88	13.530	1015	12.523	11.660	2000	96
25 DEC 88	13.400	2300	12.542	11.900	0900	96
26 DEC 88	13.690	1845	13.110	12.190	0445	91
27 DEC 88	13.270	1115	12.392	11.620	0830	96
28 DEC 88	12.560	1330	12.113	11.610	1200	35
29 DEC 88	-----	-----	-----	-----	-----	0
30 DEC 88	-----	-----	-----	-----	-----	0
31 DEC 88	-----	-----	-----	-----	-----	0
AVERAGE	12.825		12.085	11.104		
STD DEV	1.225		1.149	1.212		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR APR 1989

STATION:ZERO

PARAMETER:DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM --- (PARAM) TIME	DAILY AVERAGE	--- MINIMUM --- (PARAM) TIME	NO INT.
1 APR 89	-----	-----	-----	0
2 APR 89	-----	-----	-----	0
3 APR 89	-----	-----	-----	0
4 APR 89	-----	-----	-----	0
5 APR 89	-----	-----	-----	0
6 APR 89	-----	-----	-----	0
7 APR 89	-----	-----	-----	0
8 APR 89	-----	-----	-----	0
9 APR 89	-----	-----	-----	0
10 APR 89	-----	-----	-----	0
11 APR 89	-----	-----	-----	0
12 APR 89	-----	-----	-----	0
13 APR 89	-----	-----	-----	0
14 APR 89	-----	-----	-----	0
15 APR 89	-----	-----	-----	0
16 APR 89	-----	-----	-----	0
17 APR 89	-----	-----	-----	0
18 APR 89	-----	-----	-----	0
19 APR 89	-----	-----	-----	0
20 APR 89	-----	-----	-----	0
21 APR 89	10.750 1645	10.065	9.740 1945	47
22 APR 89	11.360 0515	10.824	9.340 2230	96
23 APR 89	11.300 1630	11.036	10.260 0000	71
24 APR 89	11.080 0915	10.259	9.080 1930	96
25 APR 89	11.280 1000	10.120	8.310 2045	77
26 APR 89	10.040 1500	8.609	7.631 2330	83
27 APR 89	10.030 1245	8.850	7.536 0500	96
28 APR 89	10.000 1245	8.927	7.796 0415	87
29 APR 89	9.660 2200	8.734	7.940 0030	96
30 APR 89	9.140 1730	8.356	7.585 0900	96
AVERAGE	10.464	9.578	8.522	
STD DEV	0.790	0.987	1.002	

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR MAY 1989

STATION: ZERO

PARAMETER: DISSOLVED OXYGEN (MG/L)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 MAY 89	9.610	1200	8.544	7.813	0915	96
2 MAY 89	9.230	1315	8.307	7.769	1445	96
3 MAY 89	9.440	1115	8.683	7.835	0000	96
4 MAY 89	9.740	1415	8.836	8.210	0530	96
5 MAY 89	10.240	1030	9.048	8.330	0715	96
6 MAY 89	10.280	1000	8.679	7.657	1830	96
7 MAY 89	10.020	1400	8.889	6.950	2130	96
8 MAY 89	10.330	1200	8.945	8.070	0015	96
9 MAY 89	9.480	0400	8.455	8.160	0900	96
10 MAY 89	9.520	0745	8.603	8.020	2130	96
11 MAY 89	9.300	0745	8.244	7.682	2345	96
12 MAY 89	9.310	1430	8.003	7.510	2045	96
13 MAY 89	9.120	1130	7.847	7.481	0430	96
14 MAY 89	9.520	1400	8.192	7.709	2015	96
15 MAY 89	9.860	1800	8.473	7.705	1000	96
16 MAY 89	9.700	1400	9.104	8.620	2030	96
17 MAY 89	9.720	1500	9.109	8.430	1215	96
18 MAY 89	9.480	0645	8.824	7.980	2245	96
19 MAY 89	9.680	0930	8.784	8.090	0000	96
20 MAY 89	9.580	1530	8.787	7.824	0400	96
21 MAY 89	9.230	0800	8.830	8.240	2145	84
22 MAY 89	9.590	1215	8.320	7.732	0945	96
23 MAY 89	9.330	1130	8.670	7.866	0000	96
24 MAY 89	8.830	0045	8.225	7.797	1900	96
25 MAY 89	8.580	1330	7.964	7.538	0830	96
26 MAY 89	8.100	1000	7.853	7.613	0845	96
27 MAY 89	8.100	1100	7.640	7.340	1345	96
28 MAY 89	8.510	1645	7.997	7.402	0030	96
29 MAY 89	9.370	1430	8.082	7.369	0830	96
30 MAY 89	8.560	0115	8.262	8.010	1645	96
31 MAY 89	9.200	1245	8.069	7.438	2315	96
AVERAGE	9.373		8.460	7.813		
STD DEV	0.564		0.409	0.360		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUN 1988

STATION: ZERO

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUN 88	26.540	1400	25.590	24.060	0745	74
2 JUN 88	28.650	1645	27.294	26.100	0615	90
3 JUN 88	27.570	1930	26.580	25.140	1145	96
4 JUN 88	27.370	0000	26.001	24.000	1000	89
5 JUN 88	27.600	1530	26.865	26.160	1045	96
6 JUN 88	27.780	1600	26.775	25.470	0900	96
7 JUN 88	26.720	1615	25.253	23.440	0700	96
8 JUN 88	27.150	1515	26.190	24.110	0900	86
9 JUN 88	29.310	1600	28.017	26.800	0845	96
10 JUN 88	28.560	1800	28.124	27.550	1200	96
11 JUN 88	28.170	0000	27.710	27.130	0815	96
12 JUN 88	29.890	1530	28.465	25.690	0815	96
13 JUN 88	30.550	1615	29.540	27.730	0815	96
14 JUN 88	32.610	1715	30.884	29.850	0645	85
15 JUN 88	31.700	1500	30.831	29.720	0630	81
16 JUN 88	32.750	2300	31.750	30.720	0000	96
17 JUN 88	32.780	0045	31.869	30.260	2330	81
18 JUN 88	30.260	0000	29.622	28.820	1000	96
19 JUN 88	30.030	1445	29.183	28.600	0800	80
20 JUN 88	29.680	1530	29.030	28.150	0845	96
21 JUN 88	29.560	1315	28.834	28.420	0730	43
22 JUN 88	30.000	1415	30.000	30.000	1415	1
23 JUN 88	31.000	0915	31.000	31.000	0915	1
24 JUN 88	24.000	0745	24.000	24.000	0745	1
25 JUN 88	-----	----	-----	-----	----	0
26 JUN 88	-----	----	-----	-----	----	0
27 JUN 88	29.820	2115	28.327	27.350	1315	43
28 JUN 88	30.600	0200	27.358	24.960	1330	81
29 JUN 88	25.980	0000	24.983	23.850	1000	83
30 JUN 88	30.500	2030	25.917	22.870	0645	78

AVERAGE	29.183		28.071	26.855		
STD DEV	2.134		2.131	2.453		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUL 1988

STATION: ZERO

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUL 88	30.490	1815	28.416	23.450	0500	96
2 JUL 88	30.320	2015	28.767	25.720	0915	85
3 JUL 88	29.770	0000	27.818	24.710	0830	68
4 JUL 88	32.310	2145	30.799	28.040	0900	75
5 JUL 88	33.870	1745	31.550	29.130	0800	59
6 JUL 88	35.320	2200	34.230	32.210	0845	48
7 JUL 88	36.430	2030	35.226	33.900	0645	95
8 JUL 88	34.330	1345	31.690	29.400	2345	56
9 JUL 88	36.270	1230	32.709	28.760	0245	96
10 JUL 88	36.630	2345	35.000	33.220	0915	86
11 JUL 88	39.230	1615	37.780	35.120	0545	96
12 JUL 88	39.220	1315	38.841	38.120	1700	44
13 JUL 88	38.860	0000	37.824	37.000	1330	71
14 JUL 88	38.180	2315	37.935	37.500	1115	40
15 JUL 88	38.000	0000	36.321	35.430	1200	62
16 JUL 88	37.760	2200	36.923	34.840	1030	54
17 JUL 88	37.280	1145	36.448	33.840	2100	67
18 JUL 88	36.680	1245	35.956	34.980	0045	52
19 JUL 88	35.440	2130	34.933	34.300	1815	30
20 JUL 88	36.640	1815	35.170	34.020	0345	96
21 JUL 88	35.820	0000	34.729	33.560	2345	89
22 JUL 88	33.840	1730	32.897	31.020	0745	96
23 JUL 88	33.930	1615	32.238	26.360	2345	73
24 JUL 88	26.300	0430	25.959	25.440	2130	96
25 JUL 88	33.410	1945	30.008	25.170	0615	78
26 JUL 88	34.210	1500	32.692	29.560	0630	91
27 JUL 88	34.900	1600	33.953	33.190	0915	87
28 JUL 88	34.340	1245	33.795	33.440	1830	63
29 JUL 88	35.260	2000	34.875	33.930	1230	35
30 JUL 88	36.490	1815	35.652	33.760	0915	52
31 JUL 88	36.260	2000	35.399	33.810	1045	45
AVERAGE	35.090		33.759	31.707		
STD DEV	2.941		3.201	4.074		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR AUG 1988

STATION: ZERO

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 AUG 88	36.560	2030	35.674	34.370	0715	90
2 AUG 88	37.550	2245	35.353	33.360	0630	68
3 AUG 88	39.170	1445	37.267	36.210	0115	52
4 AUG 88	39.010	2130	37.858	35.660	0645	93
5 AUG 88	39.320	2000	38.790	38.120	0730	84
6 AUG 88	39.200	1945	38.758	37.980	0845	61
7 AUG 88	38.800	1900	38.329	37.690	0545	54
8 AUG 88	38.750	1915	38.218	37.780	0845	45
9 AUG 88	38.250	1815	35.758	33.350	0645	44
10 AUG 88	-----	-----	-----	-----	-----	0
11 AUG 88	39.790	1730	39.191	38.390	0800	29
12 AUG 88	34.000	0815	34.000	34.000	0815	1
13 AUG 88	38.000	0000	38.000	38.000	0000	1
14 AUG 88	-----	-----	-----	-----	-----	0
15 AUG 88	-----	-----	-----	-----	-----	0
16 AUG 88	38.000	1300	38.000	38.000	1300	1
17 AUG 88	35.000	1415	35.000	35.000	1415	1
18 AUG 88	33.000	1015	33.000	33.000	1015	1
19 AUG 88	34.840	1545	34.550	33.040	2345	40
20 AUG 88	32.700	1330	31.271	29.360	1100	43
21 AUG 88	-----	-----	-----	-----	-----	0
22 AUG 88	-----	-----	-----	-----	-----	0
23 AUG 88	28.600	1145	28.600	28.600	1145	1
24 AUG 88	23.980	1330	23.568	23.200	2230	49
25 AUG 88	24.780	2345	23.678	22.860	0815	96
26 AUG 88	24.870	0130	24.122	23.490	0700	61
27 AUG 88	31.810	2230	25.341	23.060	0930	96
28 AUG 88	34.400	2015	31.870	28.720	0615	77
29 AUG 88	33.880	0000	32.429	30.690	0400	86
30 AUG 88	31.880	0030	31.006	28.880	0715	96
31 AUG 88	31.790	1545	30.181	27.440	0845	96

AVERAGE	34.536		33.454	32.317		
STD DEV	4.753		4.996	5.214		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR SEP 1988

STATION: ZERO		PARAMETER:		TEMPERATURE (DEG C)		
DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 SEP 88	32.380	1630	29.943	25.740	0700	80
2 SEP 88	31.480	0000	30.171	28.090	1030	96
3 SEP 88	30.620	1830	29.552	27.870	0530	81
4 SEP 88	30.570	2145	29.484	27.700	1015	75
5 SEP 88	30.550	0000	28.592	27.350	0800	96
6 SEP 88	30.620	2015	27.961	24.940	0800	96
7 SEP 88	30.310	1700	29.011	24.550	0800	95
8 SEP 88	30.750	1815	29.485	26.880	0715	96
9 SEP 88	30.840	2045	29.760	27.170	0730	76
10 SEP 88	31.030	1445	29.953	26.630	0600	96
11 SEP 88	30.610	0000	28.874	25.620	0815	96
12 SEP 88	30.160	1500	28.420	24.460	0700	96
13 SEP 88	29.610	1745	28.527	25.910	0715	96
14 SEP 88	29.140	1815	27.708	25.530	0715	96
15 SEP 88	27.560	1700	27.029	25.450	0700	57
16 SEP 88	28.110	1545	26.951	25.370	0615	90
17 SEP 88	28.080	1945	27.284	25.680	0530	77
18 SEP 88	29.200	1900	27.845	24.400	1030	95
19 SEP 88	29.710	2015	28.893	27.280	0630	80
20 SEP 88	29.600	2000	29.218	28.540	0515	96
21 SEP 88	30.340	1000	29.996	29.580	0000	80
22 SEP 88	29.910	0030	28.557	27.280	1015	78
23 SEP 88	29.270	2100	28.358	26.550	0700	91
24 SEP 88	28.770	0000	27.796	26.560	0745	80
25 SEP 88	28.120	1730	27.459	26.380	0815	96
26 SEP 88	27.880	0000	27.224	25.340	0715	96
27 SEP 88	27.640	1900	27.135	26.510	0900	96
28 SEP 88	27.530	0030	21.412	18.940	0745	79
29 SEP 88	27.100	2145	26.233	24.870	1030	96
30 SEP 88	27.910	2045	26.668	25.330	0515	96
AVERAGE	29.513		28.183	26.083		
STD DEV	1.374		1.694	1.857		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR OCT 1988

STATION: ZERO

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 OCT 88	28.670	2015	27.425	25.810	0715	96
2 OCT 88	28.860	2345	27.788	26.720	0800	96
3 OCT 88	28.840	0000	27.935	26.670	0715	96
4 OCT 88	28.850	1800	27.703	26.600	0915	96
5 OCT 88	28.340	0000	26.449	25.480	0730	96
6 OCT 88	26.890	0000	25.915	24.410	2230	96
7 OCT 88	26.670	2145	24.880	23.580	0945	96
8 OCT 88	26.580	0200	22.733	14.480	2345	96
9 OCT 88	16.330	1945	15.666	14.450	0015	96
10 OCT 88	23.370	2345	18.010	13.890	0600	96
11 OCT 88	24.700	1300	23.926	23.300	0345	96
12 OCT 88	23.780	1930	23.366	22.740	1015	95
13 OCT 88	23.610	0400	22.612	22.240	0800	80
14 OCT 88	22.600	2000	22.248	21.890	0830	96
15 OCT 88	22.860	2145	22.166	21.100	0715	95
16 OCT 88	23.080	2045	22.767	22.460	0530	91
17 OCT 88	23.680	2215	23.170	22.230	0615	96
18 OCT 88	24.390	2200	23.842	22.540	0245	96
19 OCT 88	24.300	0000	23.670	21.350	0400	80
20 OCT 88	23.620	0000	23.008	22.630	1115	96
21 OCT 88	22.760	0000	22.047	21.620	1345	64
22 OCT 88	22.030	0000	21.379	20.980	1000	84
23 OCT 88	21.280	0000	20.763	19.970	1030	87
24 OCT 88	21.550	2330	21.153	21.010	1515	96
25 OCT 88	21.530	0000	19.622	18.130	2345	86
26 OCT 88	21.150	1345	20.372	17.520	0145	96
27 OCT 88	21.300	1030	20.966	20.100	0100	96
28 OCT 88	20.680	0000	19.484	16.670	0615	95
29 OCT 88	20.070	0015	18.312	17.650	2345	76
30 OCT 88	17.640	0000	17.370	17.190	2345	96
31 OCT 88	19.460	1400	17.821	15.620	0430	86
AVERAGE	23.531		22.405	21.001		
STD DEV	3.261		3.223	3.693		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR NOV 1988

STATION:ZERO

PARAMETER:

TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 NOV 88	18.600	0000	18.150	17.720	1800	96
2 NOV 88	18.370	0815	18.189	17.840	0045	88
3 NOV 88	18.310	0000	17.552	16.180	1000	96
4 NOV 88	19.120	2215	18.539	18.030	0745	58
5 NOV 88	19.640	2330	19.230	18.890	1000	96
6 NOV 88	19.630	0000	18.675	16.210	1115	80
7 NOV 88	19.790	0700	19.432	18.620	1930	96
8 NOV 88	19.090	0145	18.579	16.860	0615	80
9 NOV 88	20.310	2045	19.000	16.120	0915	96
10 NOV 88	20.330	2330	18.882	16.230	0930	86
11 NOV 88	20.340	0000	19.650	18.140	1015	96
12 NOV 88	19.830	0000	18.731	16.710	0600	79
13 NOV 88	19.140	0000	18.345	17.360	1130	96
14 NOV 88	18.830	0000	17.988	16.230	0630	57
15 NOV 88	17.000	0815	17.000	17.000	0815	1
16 NOV 88	15.000	0830	15.000	15.000	0830	1
17 NOV 88	18.000	1000	18.000	18.000	1000	1
18 NOV 88	17.000	0930	17.000	17.000	0930	1
19 NOV 88	-----	-----	-----	-----	-----	0
20 NOV 88	-----	-----	-----	-----	-----	0
21 NOV 88	17.190	1230	16.887	16.080	0430	86
22 NOV 88	17.150	2045	16.842	16.350	0745	96
23 NOV 88	17.460	1400	17.300	16.970	2330	96
24 NOV 88	16.950	0000	15.193	13.740	2130	80
25 NOV 88	15.200	2345	13.888	11.670	0945	74
26 NOV 88	16.040	1545	14.993	13.050	0715	84
27 NOV 88	16.310	2345	14.507	11.430	0800	96
28 NOV 88	16.330	0030	15.086	12.400	0700	80
29 NOV 88	16.400	2330	15.492	13.100	0615	96
30 NOV 88	16.310	0000	15.337	12.380	0930	96
AVERAGE	17.988		17.267	15.904		
STD DEV	1.607		1.689	2.188		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR MAY 1989

STATION: ZERO

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 MAY 89	21.620	1400	19.958	17.140	0815	96
2 MAY 89	20.820	0000	20.398	20.060	0945	96
3 MAY 89	20.270	0000	18.848	17.700	2345	96
4 MAY 89	20.130	1500	18.769	17.620	0415	96
5 MAY 89	19.410	2330	18.635	17.940	0545	96
6 MAY 89	21.640	1830	19.682	16.460	0945	96
7 MAY 89	20.670	0000	19.889	19.080	1415	96
8 MAY 89	19.990	0000	19.306	18.890	1345	96
9 MAY 89	20.260	1715	19.382	18.500	0730	96
10 MAY 89	20.310	2330	19.809	19.320	0730	96
11 MAY 89	20.430	0100	20.030	19.570	0830	96
12 MAY 89	21.810	1615	20.463	19.750	0845	96
13 MAY 89	20.610	0000	19.956	19.580	1330	96
14 MAY 89	21.370	1445	20.475	19.780	0230	96
15 MAY 89	22.750	1315	21.336	20.070	0600	96
16 MAY 89	23.230	1515	21.498	19.040	2330	96
17 MAY 89	23.080	1715	19.650	18.060	0630	96
18 MAY 89	21.060	1530	19.711	18.570	0730	96
19 MAY 89	21.650	1645	20.837	19.690	0200	96
20 MAY 89	23.430	1130	22.001	20.930	0415	96
21 MAY 89	29.840	2000	25.785	21.260	0330	84
22 MAY 89	30.100	2045	29.399	28.300	0815	96
23 MAY 89	29.160	0000	21.013	17.610	2345	96
24 MAY 89	29.120	2100	25.472	17.460	0100	96
25 MAY 89	30.370	1530	29.573	28.880	0615	96
26 MAY 89	30.710	2130	30.355	29.520	0615	96
27 MAY 89	30.660	0000	30.247	29.790	0745	96
28 MAY 89	29.810	0000	27.823	26.820	1715	96
29 MAY 89	30.150	1900	28.912	26.980	0345	96
30 MAY 89	30.040	2000	29.585	28.290	0630	96
31 MAY 89	30.130	1645	29.722	28.540	0430	96
AVERAGE	24.343		22.855	21.329		
STD DEV	4.381		4.267	4.393		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUN 1988

STATION: N-10

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUN 88	17.000	1700	17.000	17.000	1700	1
2 JUN 88	16.833	0100	16.833	16.833	0100	1
3 JUN 88	17.100	1445	16.885	16.600	2345	44
4 JUN 88	17.020	1515	16.547	16.230	0745	77
5 JUN 88	17.250	1830	16.683	16.150	0700	96
6 JUN 88	17.430	1545	16.940	16.370	0630	69
7 JUN 88	18.280	1615	17.396	16.740	0615	96
8 JUN 88	18.680	1600	17.794	16.900	0430	86
9 JUN 88	17.760	1545	17.531	16.930	2345	93
10 JUN 88	18.070	1800	16.902	16.040	0830	60
11 JUN 88	18.870	1730	17.782	16.440	0745	93
12 JUN 88	20.400	1800	18.874	17.380	0815	96
13 JUN 88	21.980	1815	20.487	19.240	0645	96
14 JUN 88	23.580	1900	21.986	20.680	0615	96
15 JUN 88	24.690	1845	23.509	22.110	0700	84
16 JUN 88	25.020	1630	24.310	23.570	0630	88
17 JUN 88	24.420	0015	24.001	23.240	2345	96
18 JUN 88	25.060	1745	23.520	22.870	0730	73
19 JUN 88	24.700	1745	23.649	22.660	0645	96
20 JUN 88	25.490	1830	24.450	23.540	0530	96
21 JUN 88	26.330	1700	25.445	24.700	0530	96
22 JUN 88	25.580	1400	25.280	24.820	0600	96
23 JUN 88	25.500	1415	24.859	23.720	2345	96
24 JUN 88	24.340	1715	23.662	22.710	0715	76
25 JUN 88	23.400	0000	22.595	21.680	2315	96
26 JUN 88	22.990	1615	22.176	21.390	0330	71
27 JUN 88	22.680	1730	21.760	20.740	0715	95
28 JUN 88	23.630	1715	22.729	21.920	0715	96
29 JUN 88	23.660	1600	22.871	22.180	0730	76
30 JUN 88	22.670	0000	21.931	20.900	2330	96
AVERAGE	21.680		20.879	20.076		
STD DEV	3.341		3.198	3.080		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUL 1988

STATION: N-10

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUL 88	21.130	1645	20.722	19.950	2345	92
2 JUL 88	20.300	1600	19.725	19.090	0630	96
3 JUL 88	21.490	1745	20.295	18.850	0515	83
4 JUL 88	22.020	1515	21.004	19.920	0615	96
5 JUL 88	23.940	1715	22.499	21.090	0445	96
6 JUL 88	24.960	1700	23.869	22.900	0615	96
7 JUL 88	26.250	1845	24.998	23.860	0415	96
8 JUL 88	26.770	1845	25.979	25.340	0545	96
9 JUL 88	26.780	1515	26.300	25.980	0645	96
10 JUL 88	28.160	1745	26.720	25.810	0600	96
11 JUL 88	28.110	1645	27.282	26.370	0630	96
12 JUL 88	28.840	1545	27.623	26.850	0630	77
13 JUL 88	28.990	1745	27.747	26.950	0645	81
14 JUL 88	28.360	1400	27.739	26.100	0500	75
15 JUL 88	27.870	1730	27.063	26.360	0700	96
16 JUL 88	27.220	1830	26.685	25.870	0730	68
17 JUL 88	26.670	1415	26.297	25.970	0645	72
18 JUL 88	26.930	1630	26.010	25.210	0700	90
19 JUL 88	26.140	0000	25.468	25.110	2245	96
20 JUL 88	26.140	1330	25.414	24.840	0730	96
21 JUL 88	25.440	0000	24.452	23.580	2345	87
22 JUL 88	23.620	0000	23.265	22.680	2330	96
23 JUL 88	23.730	1730	23.099	22.350	0700	88
24 JUL 88	23.510	0000	22.667	22.290	1330	96
25 JUL 88	22.940	1515	22.509	22.000	0645	79
26 JUL 88	23.590	1415	23.041	22.490	0745	96
27 JUL 88	24.040	1615	23.453	22.910	0345	96
28 JUL 88	23.950	0415	23.679	23.500	1000	96
29 JUL 88	24.760	1730	23.875	22.890	0600	96
30 JUL 88	25.920	1630	25.066	24.300	0530	90
31 JUL 88	25.790	1630	25.502	25.090	2330	96
AVERAGE	25.302		24.518	23.758		
STD DEV	2.339		2.278	2.321		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR AUG 1988

STATION:N-10

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 AUG 88	26.050	1645	25.330	24.620	0745	96
2 AUG 88	27.400	1700	26.238	25.080	0700	96
3 AUG 88	28.390	1715	27.366	25.950	0645	83
4 AUG 88	29.270	1730	28.083	26.830	0800	96
5 AUG 88	29.320	1730	28.483	27.560	0730	96
6 AUG 88	29.360	1815	28.570	27.790	0700	76
7 AUG 88	29.110	1615	28.590	28.090	0815	96
8 AUG 88	28.850	1645	28.371	27.840	0730	88
9 AUG 88	29.150	1630	28.194	27.440	0730	96
10 AUG 88	29.000	1615	28.380	27.690	0745	86
11 AUG 88	29.640	1545	28.566	27.780	0515	96
12 AUG 88	29.640	1630	28.774	27.910	0615	89
13 AUG 88	29.840	1615	28.880	27.980	0615	96
14 AUG 88	29.660	1400	28.914	28.280	0615	87
15 AUG 88	30.060	0100	28.530	27.000	2300	2
16 AUG 88	26.833	0100	25.750	24.667	2345	2
17 AUG 88	25.500	1600	24.861	24.222	0600	2
18 AUG 88	24.667	0100	24.028	23.389	2300	2
19 AUG 88	23.889	1500	23.055	22.222	0700	2
20 AUG 88	23.889	1600	23.223	22.556	0700	2
21 AUG 88	23.222	0100	22.666	22.111	2345	2
22 AUG 88	23.889	2345	22.417	20.944	0700	2
23 AUG 88	29.420	1545	26.365	3.952	1115	51
24 AUG 88	27.870	0000	26.664	26.160	1745	74
25 AUG 88	27.860	2015	27.132	26.510	0515	96
26 AUG 88	28.480	1730	27.645	27.070	0600	88
27 AUG 88	28.110	1700	27.085	26.250	0700	96
28 AUG 88	28.510	1515	27.453	26.440	0600	96
29 AUG 88	28.150	1345	27.251	26.550	0700	96
30 AUG 88	27.320	0215	26.405	25.590	2300	96
31 AUG 88	25.690	1015	21.929	18.760	2245	95

AVERAGE	27.679		26.619	25.007		
STD DEV	2.058		2.158	4.574		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR SEP 1988

STATION: N-10

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 SEP 88	19.510	1730	18.908	18.310	0630	96
2 SEP 88	19.400	1515	18.936	18.420	0530	96
3 SEP 88	19.240	1400	18.840	18.410	0715	96
4 SEP 88	18.540	1300	18.238	17.720	2345	82
5 SEP 88	18.360	1530	17.677	17.150	0815	80
6 SEP 88	17.560	1430	17.119	16.620	0600	96
7 SEP 88	16.890	0000	16.393	15.700	2300	85
8 SEP 88	16.500	1730	15.909	15.260	0700	95
9 SEP 88	16.370	1415	15.887	15.400	0745	95
10 SEP 88	16.940	1730	16.300	15.720	0400	94
11 SEP 88	17.120	1500	16.525	15.900	0645	96
12 SEP 88	16.280	1700	15.934	15.500	0700	96
13 SEP 88	15.790	0000	15.508	15.350	1045	85
14 SEP 88	15.680	1700	15.247	14.720	0700	93
15 SEP 88	15.300	0000	14.871	14.480	2230	73
16 SEP 88	15.170	1700	14.480	13.730	0700	91
17 SEP 88	14.720	0000	14.144	13.770	2330	96
18 SEP 88	14.580	1400	14.217	13.830	0030	76
19 SEP 88	15.340	1600	14.595	13.970	0700	96
20 SEP 88	15.700	2200	15.052	14.700	0330	88
21 SEP 88	16.130	1700	15.732	15.480	0745	96
22 SEP 88	16.240	1700	15.629	14.920	0745	94
23 SEP 88	15.850	0000	15.467	15.120	2345	96
24 SEP 88	15.350	1430	15.003	14.660	0615	96
25 SEP 88	15.160	1515	14.670	14.080	0730	96
26 SEP 88	14.860	1515	14.572	14.080	0700	83
27 SEP 88	14.640	1630	14.104	13.510	0730	96
28 SEP 88	14.450	1515	13.943	13.490	0700	96
29 SEP 88	13.990	1715	13.572	13.130	0700	91
30 SEP 88	13.940	1715	13.452	12.910	0545	76
AVERAGE	16.187		15.697	15.201		
STD DEV	1.573		1.570	1.560		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR OCT 1988

STATION: N-10

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 OCT 88	14.360	1645	13.524	12.820	0530	96
2 OCT 88	14.750	1615	14.306	13.730	0645	75
3 OCT 88	14.930	1845	14.702	14.380	0700	96
4 OCT 88	14.870	0000	14.127	13.640	2030	96
5 OCT 88	13.670	0000	12.657	11.910	2345	96
6 OCT 88	11.880	0030	11.425	10.670	2345	76
7 OCT 88	12.400	1215	11.224	10.100	0730	96
8 OCT 88	11.890	0415	11.331	10.470	2330	96
9 OCT 88	10.680	1445	10.358	10.030	0600	81
10 OCT 88	10.760	1845	10.289	9.790	0400	96
11 OCT 88	11.320	1530	10.801	10.390	0145	88
12 OCT 88	11.240	1545	10.734	10.180	0700	96
13 OCT 88	10.460	1445	10.101	9.490	2345	81
14 OCT 88	9.930	1430	9.477	9.110	0715	90
15 OCT 88	9.930	1345	9.434	9.030	0630	78
16 OCT 88	10.260	2145	9.914	9.550	0415	96
17 OCT 88	10.580	2330	10.396	10.250	0015	79
18 OCT 88	11.270	1815	10.984	10.580	0000	96
19 OCT 88	11.450	1500	11.120	10.820	0800	88
20 OCT 88	10.800	0000	10.325	9.590	2330	95
21 OCT 88	9.670	1445	9.325	8.960	0715	60
22 OCT 88	9.130	0630	8.662	8.400	2345	90
23 OCT 88	8.660	1715	8.402	8.210	0515	83
24 OCT 88	8.950	1730	8.638	8.340	0900	96
25 OCT 88	8.800	1500	8.521	8.280	0800	78
26 OCT 88	8.640	1745	8.227	7.788	0745	96
27 OCT 88	8.310	1400	7.910	7.474	0745	96
28 OCT 88	7.761	0000	7.437	7.033	0645	96
29 OCT 88	7.529	1430	7.119	6.804	2345	96
30 OCT 88	6.829	1330	6.605	6.114	2345	96
31 OCT 88	6.457	1400	6.102	5.809	0745	96
AVERAGE	10.586		10.135	9.669		
STD DEV	2.297		2.194	2.117		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR NOV 1988

STATION: N-10

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 NOV 88	5.844	0000	5.394	5.185	1415	83
2 NOV 88	5.637	1345	5.441	5.298	0730	79
3 NOV 88	5.948	2230	5.510	5.144	0830	96
4 NOV 88	5.945	0000	5.358	5.105	2345	86
5 NOV 88	5.822	2345	5.285	4.989	0530	96
6 NOV 88	6.844	1545	6.422	5.844	0115	96
7 NOV 88	6.930	0015	6.529	6.240	1845	96
8 NOV 88	6.420	2345	5.940	5.461	0815	96
9 NOV 88	7.240	1245	6.741	6.446	0000	54
10 NOV 88	-----	-----	-----	-----	-----	0
11 NOV 88	-----	-----	-----	-----	-----	0
12 NOV 88	-----	-----	-----	-----	-----	0
13 NOV 88	-----	-----	-----	-----	-----	0
14 NOV 88	-----	-----	-----	-----	-----	0
15 NOV 88	-----	-----	-----	-----	-----	0
16 NOV 88	-----	-----	-----	-----	-----	0
17 NOV 88	-----	-----	-----	-----	-----	0
18 NOV 88	-----	-----	-----	-----	-----	0
19 NOV 88	-----	-----	-----	-----	-----	0
20 NOV 88	-----	-----	-----	-----	-----	0
21 NOV 88	-----	-----	-----	-----	-----	0
22 NOV 88	-----	-----	-----	-----	-----	0
23 NOV 88	-----	-----	-----	-----	-----	0
24 NOV 88	-----	-----	-----	-----	-----	0
25 NOV 88	-----	-----	-----	-----	-----	0
26 NOV 88	-----	-----	-----	-----	-----	0
27 NOV 88	-----	-----	-----	-----	-----	0
28 NOV 88	-----	-----	-----	-----	-----	0
29 NOV 88	-----	-----	-----	-----	-----	0
30 NOV 88	-----	-----	-----	-----	-----	0
AVERAGE	6.292		5.847	5.524		
STD DEV	0.583		0.575	0.529		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR APR 1989

STATION:N-10

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 APR 89	-----	-----	-----	-----	-----	0
2 APR 89	-----	-----	-----	-----	-----	0
3 APR 89	-----	-----	-----	-----	-----	0
4 APR 89	-----	-----	-----	-----	-----	0
5 APR 89	-----	-----	-----	-----	-----	0
6 APR 89	-----	-----	-----	-----	-----	0
7 APR 89	-----	-----	-----	-----	-----	0
8 APR 89	-----	-----	-----	-----	-----	0
9 APR 89	-----	-----	-----	-----	-----	0
10 APR 89	-----	-----	-----	-----	-----	0
11 APR 89	-----	-----	-----	-----	-----	0
12 APR 89	-----	-----	-----	-----	-----	0
13 APR 89	4.381	1600	3.911	3.442	0500	2
14 APR 89	6.388	1700	4.972	3.556	0500	2
15 APR 89	7.055	2345	5.583	4.111	0400	2
16 APR 89	7.055	0100	5.416	3.777	0800	2
17 APR 89	5.388	2100	4.416	3.444	0600	2
18 APR 89	6.388	2300	5.721	5.055	0800	2
19 APR 89	6.833	0915	6.360	5.888	0900	2
20 APR 89	7.056	1800	6.558	6.060	1200	2
21 APR 89	6.833	0100	6.446	6.060	1000	2
22 APR 89	6.722	0100	6.222	5.722	2200	2
23 APR 89	5.888	0100	5.471	5.055	0600	2
24 APR 89	6.222	1600	5.722	5.222	0600	2
25 APR 89	6.722	1600	6.139	5.555	0100	2
26 APR 89	7.833	1700	7.028	6.222	0500	2
27 APR 89	8.000	1600	7.564	7.166	0800	2
28 APR 89	8.667	1600	8.028	7.389	0500	2
29 APR 89	8.500	1100	8.166	7.833	0500	2
30 APR 89	8.500	1900	8.000	7.500	2200	2

AVERAGE	6.913		6.208	5.503		
STD DEV	1.114		1.217	1.430		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR MAY 1989

STATION:N-10

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 MAY 89	10.090	1300	9.788	9.470	2230	46
2 MAY 89	9.570	0045	9.191	8.780	2215	96
3 MAY 89	8.830	1330	8.513	8.100	2200	96
4 MAY 89	8.090	0000	7.524	7.065	0645	96
5 MAY 89	7.680	1530	7.263	6.665	0600	96
6 MAY 89	8.300	2030	7.762	7.300	0630	96
7 MAY 89	9.020	1730	8.438	7.940	0615	96
8 MAY 89	8.290	0000	7.779	7.520	2345	96
9 MAY 89	8.260	1830	7.735	7.200	0700	96
10 MAY 89	8.210	1345	7.976	7.734	0645	96
11 MAY 89	7.950	0000	7.663	7.540	1130	96
12 MAY 89	8.090	2230	7.758	7.484	0945	96
13 MAY 89	8.060	0000	7.935	7.820	2345	96
14 MAY 89	9.130	1815	8.334	7.620	0545	96
15 MAY 89	11.260	1945	10.000	8.700	0530	96
16 MAY 89	12.200	1730	11.595	10.880	0600	96
17 MAY 89	13.280	1730	12.646	11.920	0615	96
18 MAY 89	14.500	1800	13.757	12.800	0545	96
19 MAY 89	17.390	1730	15.749	14.040	0530	90
20 MAY 89	18.040	1845	17.214	16.310	0630	96
21 MAY 89	18.020	1845	17.620	17.170	0815	88
22 MAY 89	18.160	1730	17.579	16.900	0715	96
23 MAY 89	17.940	2345	17.452	16.760	0700	96
24 MAY 89	17.970	0000	17.313	16.910	2300	96
25 MAY 89	18.340	2345	17.331	16.580	0645	96
26 MAY 89	18.520	1630	18.312	17.980	0900	96
27 MAY 89	18.330	0000	18.140	17.910	2345	96
28 MAY 89	17.890	0000	17.456	17.220	2345	96
29 MAY 89	17.690	1830	17.093	16.360	0815	96
30 MAY 89	17.580	0145	17.409	17.160	0700	96
31 MAY 89	17.430	0000	17.235	16.960	1045	96
AVERAGE	13.036		12.502	11.961		
STD DEV	4.509		4.462	4.411		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUN 1988

STATION: S-4

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUN 88	-----	----	-----	-----	----	0
2 JUN 88	18.440	1800	18.205	17.950	2330	34
3 JUN 88	18.430	1745	17.966	17.550	0730	96
4 JUN 88	18.660	1645	18.099	17.540	0600	83
5 JUN 88	18.850	1715	18.136	17.390	0615	96
6 JUN 88	19.740	1645	18.779	17.850	0645	81
7 JUN 88	18.770	0000	18.266	18.010	0745	31
8 JUN 88	-----	----	-----	-----	----	0
9 JUN 88	19.880	1645	19.424	18.960	2300	34
10 JUN 88	22.380	2145	19.181	18.020	0645	96
11 JUN 88	22.350	2330	20.432	18.960	0915	96
12 JUN 88	23.360	0330	21.815	21.220	0200	18
13 JUN 88	-----	----	-----	-----	----	0
14 JUN 88	-----	----	-----	-----	----	0
15 JUN 88	-----	----	-----	-----	----	0
16 JUN 88	-----	----	-----	-----	----	0
17 JUN 88	-----	----	-----	-----	----	0
18 JUN 88	-----	----	-----	-----	----	0
19 JUN 88	-----	----	-----	-----	----	0
20 JUN 88	27.820	1830	27.245	26.590	1215	47
21 JUN 88	27.770	1715	26.785	25.710	0530	96
22 JUN 88	27.400	2100	26.818	26.200	0630	85
23 JUN 88	27.020	0200	26.313	25.520	2230	96
24 JUN 88	25.660	1015	25.182	24.650	1215	55
25 JUN 88	26.720	0415	24.749	24.040	2345	96
26 JUN 88	25.500	2030	23.817	22.430	0815	81
27 JUN 88	27.000	2245	24.456	22.990	0815	96
28 JUN 88	27.610	0430	26.033	24.970	1500	95
29 JUN 88	25.290	0030	24.427	23.550	0730	96
30 JUN 88	27.650	2230	24.781	23.310	0815	96
AVERAGE	23.633		22.424	21.591		
STD DEV	3.750		3.519	3.407		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR JUL 1988

STATION: S-4

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 JUL 88	27.700	2345	25.553	21.990	0715	96
2 JUL 88	27.230	0000	25.329	24.190	1015	88
3 JUL 88	27.220	0245	25.641	23.950	0915	82
4 JUL 88	29.600	2215	26.869	24.850	1030	95
5 JUL 88	31.220	1915	28.574	25.960	1015	96
6 JUL 88	31.150	2245	29.813	27.360	1330	96
7 JUL 88	32.960	1715	30.402	28.230	0845	94
8 JUL 88	32.630	0230	30.681	28.720	1030	96
9 JUL 88	33.600	1430	30.285	28.200	0530	96
10 JUL 88	32.160	0145	31.423	30.540	0000	8
11 JUL 88	-----	-----	-----	-----	-----	0
12 JUL 88	-----	-----	-----	-----	-----	0
13 JUL 88	-----	-----	-----	-----	-----	0
14 JUL 88	-----	-----	-----	-----	-----	0
15 JUL 88	-----	-----	-----	-----	-----	0
16 JUL 88	-----	-----	-----	-----	-----	0
17 JUL 88	-----	-----	-----	-----	-----	0
18 JUL 88	-----	-----	-----	-----	-----	0
19 JUL 88	-----	-----	-----	-----	-----	0
20 JUL 88	34.580	1815	33.383	31.240	2215	29
21 JUL 88	35.140	0445	31.312	28.930	2330	96
22 JUL 88	31.210	0115	28.582	25.250	2300	96
23 JUL 88	27.460	1815	25.887	24.870	1100	96
24 JUL 88	25.330	0100	24.691	24.140	2315	96
25 JUL 88	26.670	1500	24.756	24.000	1300	80
26 JUL 88	28.670	2215	26.127	24.140	0230	96
27 JUL 88	30.120	1615	27.731	24.550	0900	96
28 JUL 88	27.230	0530	25.396	25.050	1600	96
29 JUL 88	29.980	1530	26.623	24.560	0900	84
30 JUL 88	31.670	1700	28.842	25.840	0030	96
31 JUL 88	31.770	1700	29.602	26.770	0945	82
AVERAGE	30.241		28.068	26.060		
STD DEV	2.754		2.537	2.381		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR AUG 1988

STATION: S-4

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 AUG 88	31.910	0830	30.550	26.320	1145	89
2 AUG 88	32.910	2130	30.814	26.980	1130	93
3 AUG 88	34.940	2330	32.776	28.200	1315	75
4 AUG 88	34.880	0100	33.393	31.650	0115	95
5 AUG 88	35.400	1930	34.280	32.830	2230	72
6 AUG 88	36.050	2330	34.277	33.130	0815	96
7 AUG 88	35.980	0000	34.147	32.580	1515	81
8 AUG 88	36.090	1100	33.611	32.450	0315	96
9 AUG 88	36.530	1800	33.329	30.510	1245	70
10 AUG 88	36.970	1515	34.484	31.530	0630	77
11 AUG 88	35.630	2100	33.447	31.000	1830	68
12 AUG 88	35.190	1345	34.103	31.770	1015	95
13 AUG 88	36.740	1445	33.621	31.020	0800	87
14 AUG 88	36.800	1530	33.636	31.700	0615	87
15 AUG 88	37.480	1300	34.553	32.150	0915	92
16 AUG 88	33.470	0230	31.767	29.860	1445	83
17 AUG 88	33.590	1700	31.018	29.870	2300	96
18 AUG 88	32.020	0315	30.212	28.200	2300	74
19 AUG 88	30.210	1715	28.753	27.300	0900	96
20 AUG 88	30.150	0145	29.007	27.600	1130	89
21 AUG 88	29.630	0000	27.400	26.200	1215	96
22 AUG 88	27.780	0230	26.562	25.900	1915	80
23 AUG 88	29.330	2045	26.929	24.720	0345	95
24 AUG 88	26.920	0915	24.337	22.820	2330	56
25 AUG 88	23.770	1800	22.822	21.700	1115	96
26 AUG 88	24.240	1345	23.428	21.890	0400	92
27 AUG 88	25.040	2145	23.364	21.790	1000	96
28 AUG 88	31.400	1945	27.789	23.580	0000	86
29 AUG 88	30.200	1545	27.922	24.830	2315	96
30 AUG 88	26.600	0000	24.533	23.560	1115	59
31 AUG 88	23.910	0300	22.503	21.450	0530	41
AVERAGE	31.992		29.979	27.906		
STD DEV	4.339		4.062	3.874		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR SEP 1988

STATION: S-4

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 SEP 88	26.490	2045	23.392	21.390	0800	92
2 SEP 88	27.550	0530	24.696	21.620	1030	89
3 SEP 88	25.950	2315	24.545	22.630	1030	73
4 SEP 88	26.800	0915	25.266	24.000	1245	96
5 SEP 88	25.630	0845	23.634	21.760	2345	96
6 SEP 88	23.710	2100	21.266	19.800	1030	96
7 SEP 88	24.740	2215	21.954	19.530	1000	93
8 SEP 88	26.590	1600	23.760	20.090	0900	96
9 SEP 88	27.330	1315	23.956	20.490	1600	73
10 SEP 88	26.160	2115	23.998	22.390	1500	96
11 SEP 88	26.650	0500	24.318	21.630	1315	81
12 SEP 88	26.460	1845	24.294	21.240	1215	96
13 SEP 88	26.780	1715	25.018	21.200	2230	96
14 SEP 88	26.720	2145	23.282	20.320	1215	96
15 SEP 88	24.510	0300	22.308	21.040	1330	96
16 SEP 88	24.390	1930	22.755	21.150	1215	96
17 SEP 88	25.380	2300	23.894	22.120	1000	96
18 SEP 88	25.230	0300	23.383	19.710	2000	83
19 SEP 88	25.370	1830	23.607	21.480	2145	96
20 SEP 88	27.000	1015	24.884	22.280	2145	91
21 SEP 88	28.140	1145	25.481	23.780	0115	96
22 SEP 88	26.330	0400	24.133	21.950	1045	96
23 SEP 88	25.150	0330	23.029	19.520	1930	96
24 SEP 88	24.700	0630	22.359	19.200	2145	96
25 SEP 88	24.600	1045	23.014	20.090	2200	95
26 SEP 88	24.420	1330	22.768	18.690	2215	74
27 SEP 88	24.490	1109	22.232	18.340	2315	96
28 SEP 88	23.120	0315	19.581	17.680	2115	96
29 SEP 88	23.320	1900	21.659	19.130	0000	96
30 SEP 88	24.580	1630	22.365	20.030	1100	96
AVERAGE	25.610		23.348	20.809		
STD DEV	1.289		1.309	1.519		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR OCT 1988

STATION: S-4

PARAMETER:

TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 OCT 88	26.620	1800	23.583	21.030	1015	96
2 OCT 88	26.640	1830	24.673	20.310	0100	77
3 OCT 88	26.010	0200	23.107	19.400	0830	96
4 OCT 88	24.620	0100	22.049	19.700	2000	87
5 OCT 88	23.960	0100	21.945	19.980	1845	96
6 OCT 88	23.580	1345	21.249	18.890	2345	96
7 OCT 88	21.150	0415	19.443	16.750	1830	96
8 OCT 88	20.860	0245	18.910	14.920	2300	84
9 OCT 88	15.080	0000	13.851	12.980	1600	96
10 OCT 88	19.840	2330	14.948	13.050	0800	96
11 OCT 88	22.280	1515	19.804	17.130	0515	96
12 OCT 88	20.350	1230	18.409	16.080	1000	96
13 OCT 88	20.950	0730	15.418	12.800	1945	76
14 OCT 88	18.620	0945	17.125	14.960	1415	96
15 OCT 88	19.010	0430	17.519	13.720	1115	94
16 OCT 88	19.780	0815	17.280	14.210	1230	96
17 OCT 88	20.780	1415	19.042	15.260	2230	96
18 OCT 88	22.060	1245	20.313	17.160	0045	76
19 OCT 88	20.440	2115	18.352	15.230	2245	96
20 OCT 88	18.850	2300	16.937	15.000	1700	96
21 OCT 88	19.890	1000	17.627	15.440	1245	95
22 OCT 88	18.300	0730	14.925	10.260	1300	88
23 OCT 88	17.020	0300	15.127	11.470	1730	96
24 OCT 88	17.580	0900	15.988	14.340	2230	71
25 OCT 88	17.260	0600	13.043	10.120	1415	96
26 OCT 88	17.010	1515	13.741	9.580	1015	79
27 OCT 88	17.460	1600	13.527	9.670	2200	95
28 OCT 88	16.340	1230	13.458	9.210	2015	96
29 OCT 88	14.880	0145	12.872	9.520	1715	96
30 OCT 88	14.490	1215	12.794	10.570	1000	96
31 OCT 88	13.800	1645	11.998	8.170	1115	96
AVERAGE	19.855		17.373	14.416		
STD DEV	3.484		3.559	3.701		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR NOV 1988

STATION: S-4

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 NOV 88	13.630	0415	11.192	7.001	1315	75
2 NOV 88	11.020	0030	7.859	7.262	0815	96
3 NOV 88	7.853	0300	7.544	7.100	0945	83
4 NOV 88	7.914	1500	7.400	6.858	1115	96
5 NOV 88	7.554	2345	7.025	6.780	0745	74
6 NOV 88	10.090	1515	8.223	7.110	0100	96
7 NOV 88	8.720	0530	8.428	8.050	2045	86
8 NOV 88	8.390	0100	7.911	7.533	1100	96
9 NOV 88	9.030	1400	8.438	8.000	0000	61
10 NOV 88	-----	-----	-----	-----	-----	0
11 NOV 88	-----	-----	-----	-----	-----	0
12 NOV 88	-----	-----	-----	-----	-----	0
13 NOV 88	-----	-----	-----	-----	-----	0
14 NOV 88	-----	-----	-----	-----	-----	0
15 NOV 88	-----	-----	-----	-----	-----	0
16 NOV 88	-----	-----	-----	-----	-----	0
17 NOV 88	-----	-----	-----	-----	-----	0
18 NOV 88	-----	-----	-----	-----	-----	0
19 NOV 88	-----	-----	-----	-----	-----	0
20 NOV 88	-----	-----	-----	-----	-----	0
21 NOV 88	-----	-----	-----	-----	-----	0
22 NOV 88	-----	-----	-----	-----	-----	0
23 NOV 88	-----	-----	-----	-----	-----	0
24 NOV 88	-----	-----	-----	-----	-----	0
25 NOV 88	-----	-----	-----	-----	-----	0
26 NOV 88	-----	-----	-----	-----	-----	0
27 NOV 88	-----	-----	-----	-----	-----	0
28 NOV 88	-----	-----	-----	-----	-----	0
29 NOV 88	-----	-----	-----	-----	-----	0
30 NOV 88	-----	-----	-----	-----	-----	0
AVERAGE	9.356		8.224	7.299		
STD DEV	1.956		1.210	0.466		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR APR 1989

STATION: S-4

PARAMETER: TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 APR 89						0
2 APR 89						0
3 APR 89						0
4 APR 89						0
5 APR 89						0
6 APR 89						0
7 APR 89						0
8 APR 89						0
9 APR 89						0
10 APR 89						0
11 APR 89						0
12 APR 89						0
13 APR 89						0
14 APR 89						0
15 APR 89						0
16 APR 89						0
17 APR 89						0
18 APR 89	8.780	1545	8.480	8.380	2315	33
19 APR 89	9.180	1930	8.775	7.792	1045	96
20 APR 89	8.810	0030	7.616	7.268	2345	89
21 APR 89	7.242	0000	6.882	6.380	0900	96
22 APR 89	7.646	1715	7.102	6.681	0815	70
23 APR 89	8.120	1800	7.398	6.720	0830	96
24 APR 89	10.130	1530	8.643	7.696	0815	96
25 APR 89	9.560	1830	9.192	8.870	0845	96
26 APR 89	10.560	1730	9.862	9.190	0830	96
27 APR 89	10.440	0145	10.024	9.510	1945	96
28 APR 89	10.160	0445	9.891	9.680	1300	96
29 APR 89	11.410	2015	10.739	9.910	0015	96
30 APR 89	11.650	0215	10.943	10.350	2345	96
AVERAGE	9.514		8.888	8.341		
STD DEV	1.374		1.363	1.347		

PUBLIC SERVICE OF NEW HAMPSHIRE
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR MAY 1989

STATION: S-4

PARAMETER:

TEMPERATURE (DEG C)

DAY	--- MAXIMUM ---		DAILY AVERAGE	--- MINIMUM ---		NO INT.
	(PARAM)	TIME		(PARAM)	TIME	
1 MAY 89	10.560	1615	10.230	10.010	0645	96
2 MAY 89	10.370	0045	9.820	9.340	1015	96
3 MAY 89	10.420	2345	9.834	9.350	0615	96
4 MAY 89	11.320	2200	10.627	10.100	1030	96
5 MAY 89	11.750	1830	11.298	10.880	0915	96
6 MAY 89	11.390	0000	10.795	10.580	0715	96
7 MAY 89	11.460	2215	10.828	10.320	0630	96
8 MAY 89	11.590	1500	11.338	11.080	0730	96
9 MAY 89	11.430	0000	11.138	10.960	1545	96
10 MAY 89	11.490	1830	11.140	10.760	1000	96
11 MAY 89	11.450	0030	11.161	11.020	2345	96
12 MAY 89	12.270	2315	11.424	10.800	0715	96
13 MAY 89	13.480	2300	12.647	11.970	0700	96
14 MAY 89	14.760	1645	14.020	13.370	0715	96
15 MAY 89	15.740	1900	14.993	14.330	0445	96
16 MAY 89	16.570	2345	15.910	15.380	0515	96
17 MAY 89	17.990	1100	16.950	16.270	1115	96
18 MAY 89	18.670	2345	17.796	16.860	0700	96
19 MAY 89	19.160	1845	18.563	18.050	0830	84
20 MAY 89	21.900	1045	18.696	17.920	0830	96
21 MAY 89	18.890	0000	18.207	17.720	0900	96
22 MAY 89	18.600	0800	18.290	18.070	2345	96
23 MAY 89	19.240	1800	18.448	17.780	0800	96
24 MAY 89	21.390	0330	19.540	19.130	0100	96
25 MAY 89	21.560	0330	19.398	19.020	2330	96
26 MAY 89	18.990	0000	18.612	18.260	2345	96
27 MAY 89	18.850	1830	18.228	17.620	0930	93
28 MAY 89	18.690	1800	18.409	18.120	0900	96
29 MAY 89	20.780	1430	18.735	18.150	1145	94
30 MAY 89	20.000	2345	19.010	18.330	0145	96
31 MAY 89	22.370	1630	20.185	19.170	0345	94
AVERAGE	15.907		15.041	14.539		
STD DEV	4.174		3.765	3.682		

PUBLIC SERVICE NEW JERSEY
MORRIS COUNTY
MONTHLY SUMMARY REPORT



DATE	AMOUNT	DESCRIPTION	DATE	AMOUNT	DESCRIPTION
12/31/00	100.00	...	12/31/00	100.00	...
12/30/00	100.00	...	12/30/00	100.00	...
12/29/00	100.00	...	12/29/00	100.00	...
12/28/00	100.00	...	12/28/00	100.00	...
12/27/00	100.00	...	12/27/00	100.00	...
12/26/00	100.00	...	12/26/00	100.00	...
12/25/00	100.00	...	12/25/00	100.00	...
12/24/00	100.00	...	12/24/00	100.00	...
12/23/00	100.00	...	12/23/00	100.00	...
12/22/00	100.00	...	12/22/00	100.00	...
12/21/00	100.00	...	12/21/00	100.00	...
12/20/00	100.00	...	12/20/00	100.00	...
12/19/00	100.00	...	12/19/00	100.00	...
12/18/00	100.00	...	12/18/00	100.00	...
12/17/00	100.00	...	12/17/00	100.00	...
12/16/00	100.00	...	12/16/00	100.00	...
12/15/00	100.00	...	12/15/00	100.00	...
12/14/00	100.00	...	12/14/00	100.00	...
12/13/00	100.00	...	12/13/00	100.00	...
12/12/00	100.00	...	12/12/00	100.00	...
12/11/00	100.00	...	12/11/00	100.00	...
12/10/00	100.00	...	12/10/00	100.00	...
12/9/00	100.00	...	12/9/00	100.00	...
12/8/00	100.00	...	12/8/00	100.00	...
12/7/00	100.00	...	12/7/00	100.00	...
12/6/00	100.00	...	12/6/00	100.00	...
12/5/00	100.00	...	12/5/00	100.00	...
12/4/00	100.00	...	12/4/00	100.00	...
12/3/00	100.00	...	12/3/00	100.00	...
12/2/00	100.00	...	12/2/00	100.00	...
12/1/00	100.00	...	12/1/00	100.00	...



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