DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake:	CAMPTON POND	Lake Area (ha):	17.52
Town:	CAMPTON	Maximum depth (m):	2.4
County:	Grafton	Mean depth (m):	0.7
River Basin:	Merrimack	Volume (m^3):	115500
Latitude:	43°51'45" N	Relative depth:	0.5
Longitude:	71°38'00" W	Shore configuration:	1.42
Elevation (ft):	647	Areal water load (m/yr):	514.0
Shore length (m):	2100	Flushing rate (yr^{-1}):	779.0
Watershed area (ha):	14763.0		
% watershed ponded:	< 0.10	Lake type:	artificial

BIOLOGICAL:	30 January 1989	10 August 1988
DOM. PHYTOPLANKTON (% TOTAL) #1	NO PLANKTON RESULTS	SPARSE - NO DOMINANT
#2		
#3		
PHYTOPLANKTON ABUNDANCE (cells/mL)		125.0
CHLOROPHYLL-A (µg/L)		2.22
DOM. ZOOPLANKTON (% TOTAL) #1	NO PLANKTON RESULTS	SPARSE - NO DOMINANT
#2		
#3		
ROTIFERS/LITER	0	0
MICROCRUSTACEA/LITER	0	4
ZOOPLANKTON ABUNDANCE (#/L)	0	4
VASCULAR PLANT ABUNDANCE		Abundant
SECCHI DISK TRANSPARENCY (m)		2.3 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)	13.5	7.6
BACTERIA (fecal col., #/100 ml) #1		
#2		
#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m^3): None

CHEMICAL:

Lake: CAMPTON POND
Town: CAMPTON

	30 January 1989		10 August 1988		
DEPTH (m)	1.0		1.5		
pH (units)	6.6		6.6		
A.N.C. (Alkalinity)	5.7		7.1		
NITRATE NITROGEN	0.37		0.22		
TOTAL KJELDAHL NITROGEN	0.29		0.10		
TOTAL PHOSPHORUS	0.005		0.004		
CONDUCTIVITY (µ mhos/cm)	63.7		70.5		
APPARENT COLOR (cpu)	6		19		
MAGNESIUM			0.48		
CALCIUM			3.4		
SODIUM			7.2		
POTASSIUM			0.90		
CHLORIDE	10		10		
SULFATE	5		5		
TN : TP	132		80		
CALCITE SATURATION INDEX			3.3		

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1988

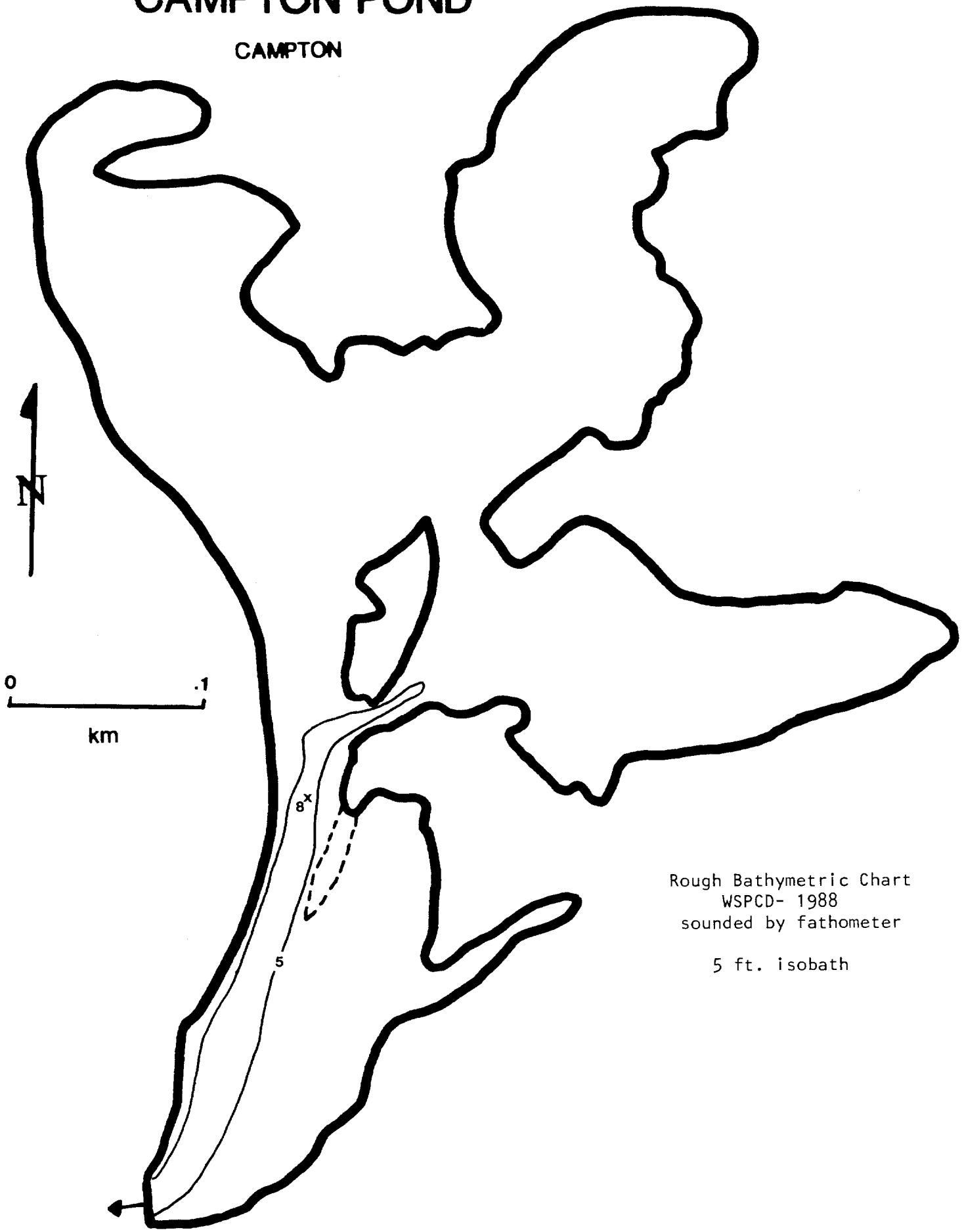
D.O.	S.D.	PLANT	CHL	TOTAL	CLASS
**	2	5	0	7	Meso.

COMMENTS:

1. This is an artificial impoundment behind a privately-owned hydro-electric dam: It is very shallow, with many sand-bars.
2. This is a White Mountain National Park Service pond, and they do not allow motor boats.
3. Greens (60%) and diatoms (15%) were the dominant whole-water phytoplankton classes. Dominant genera were tiny green flagellates (55%) and Cryptomonas (15%).

CAMPTON POND

CAMPTON



Rough Bathymetric Chart
WSPCD- 1988
sounded by fathometer

5 ft. isobath

FIELD DATA SHEET

LAKE: CAMPTON POND TOWN: CAMPTON
DATE: 08/10/88 WEATHER: SUNNY, HOT, HAZY

	DEPTH (M)	TEMP (°C)	*DISSOLVED OXYGEN	OXYGEN SATURATION
	0.1	25.9	7.8	93 %
	1.0	25.2	7.8	93 %
	2.0	24.0	7.6	89 %

SECCHI DISK (m): 2.3 VOB COMMENTS:

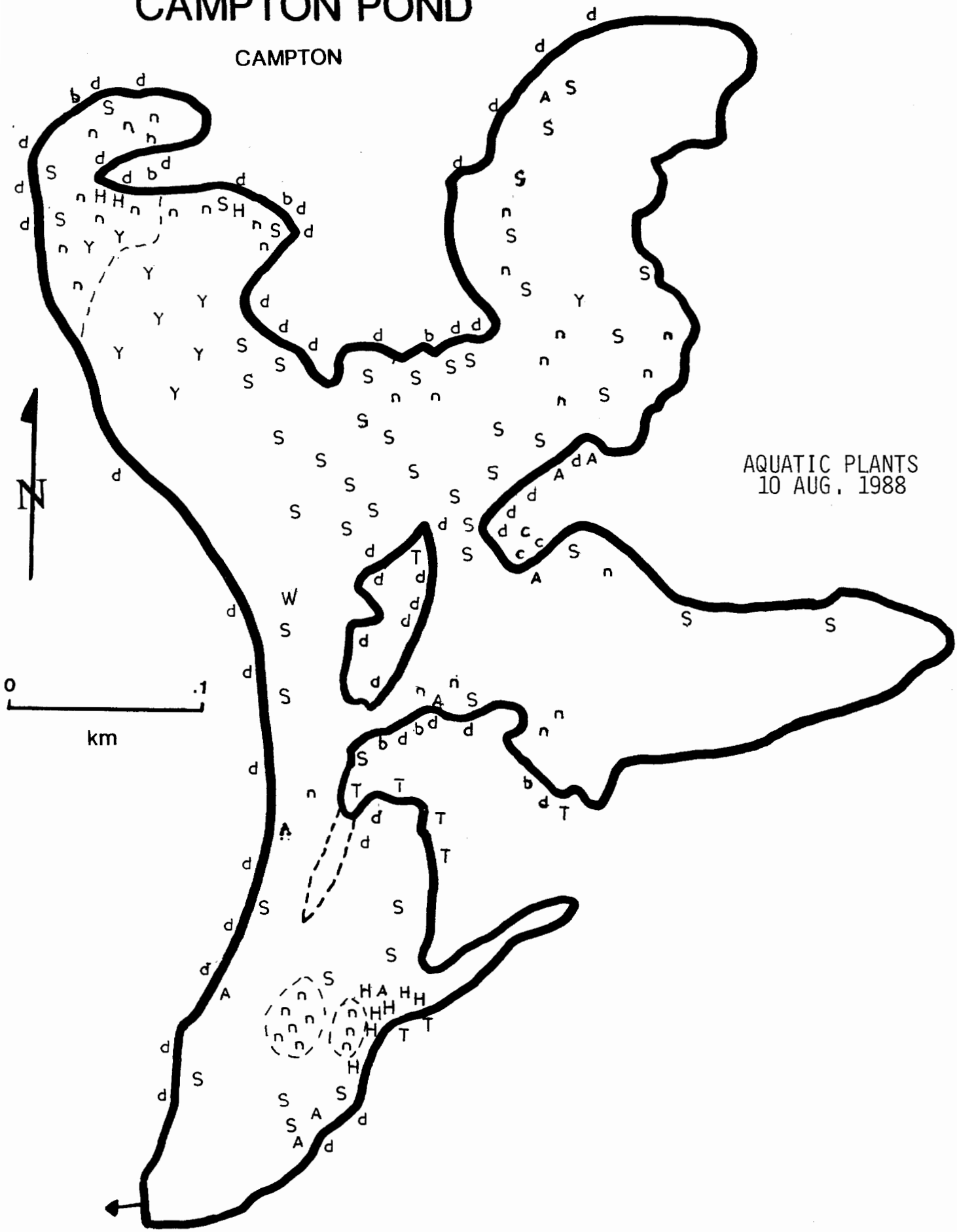
BOTTOM DEPTH (m): 2.3

TIME: 1200

*Dissolved oxygen values are in mg/L

CAMPTON POND

CAMPTON



AQUATIC PLANT SURVEY

LAKE: CAMPTON POND TOWN: CAMPTON DATE: 08/10/88

Key	PLANT NAME		ABUNDANCE
	GENERIC	COMMON	
H	Equisetum	Horsetail	Common
A	Sagittaria	Arrowhead	Sparse
S	Sparganium	Bur reed	Abundant
d	Dulichium arundinaceum	Three-way sedge	Abundant
W	Potamogeton robbinsii	Robbins pondweed	Sparse
n	Potamogeton natans	Floating-leaf pondweed	Common
b	Scirpus	Bulrush	Sparse
C	Carex	Sedge	Sparse
T	Typha	Cattail	Sparse

OVERALL ABUNDANCE: Abundant

GENERAL OBSERVATIONS: