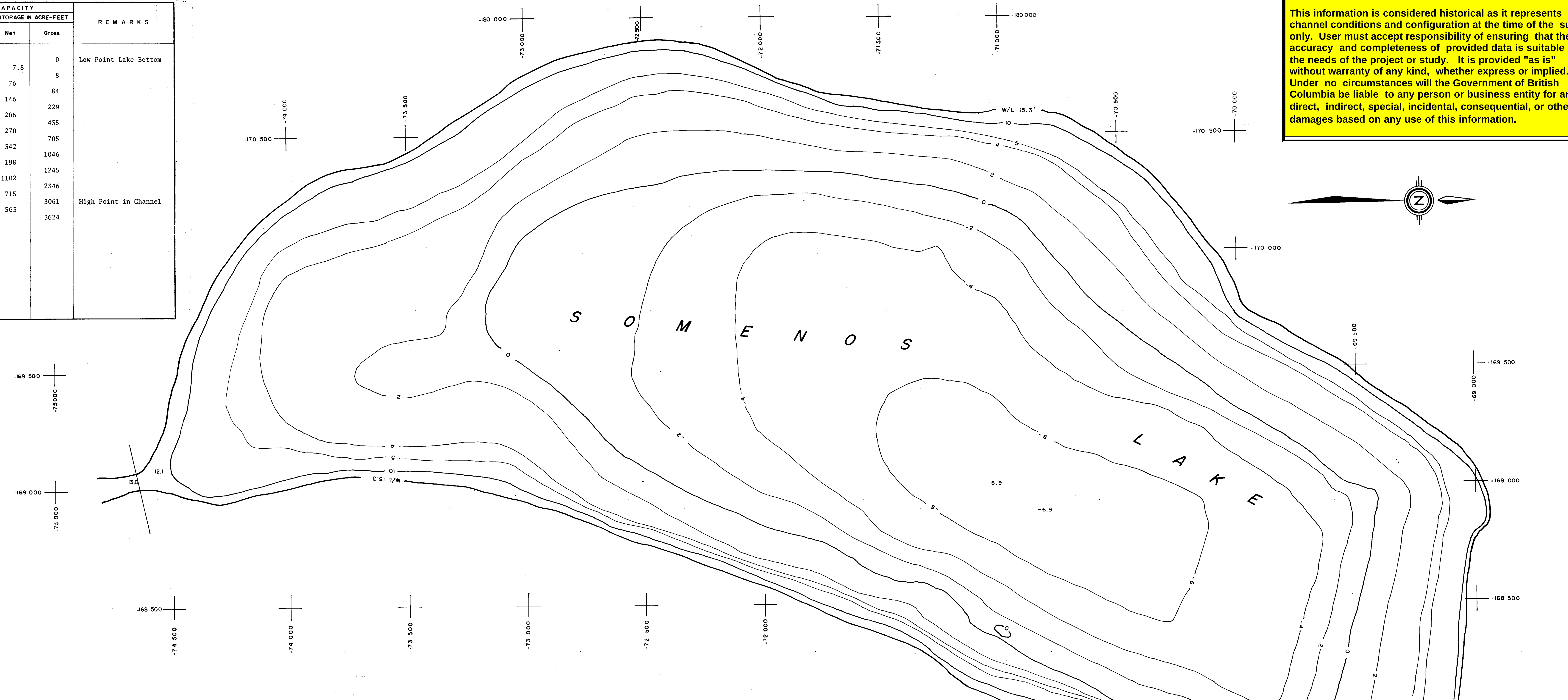
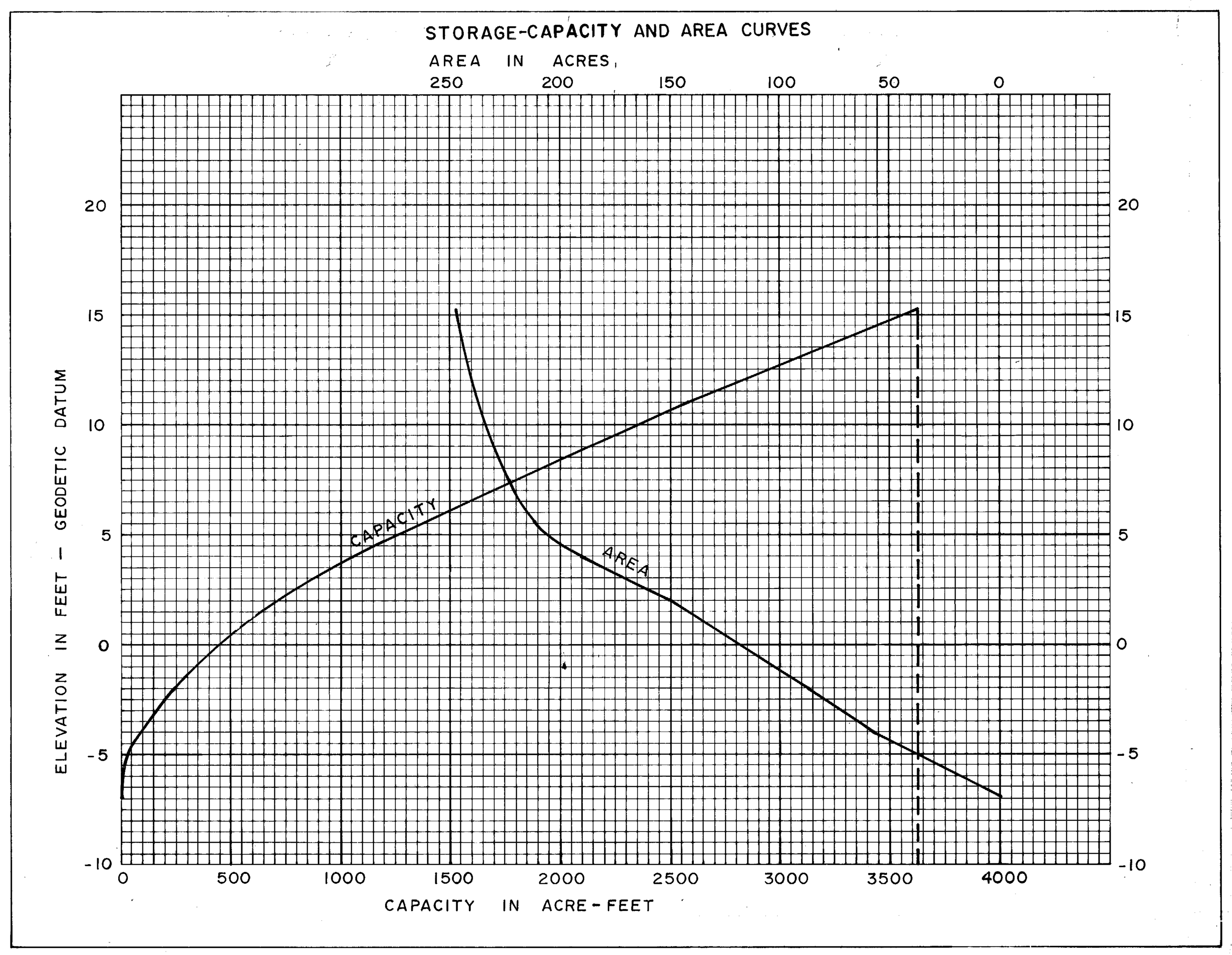
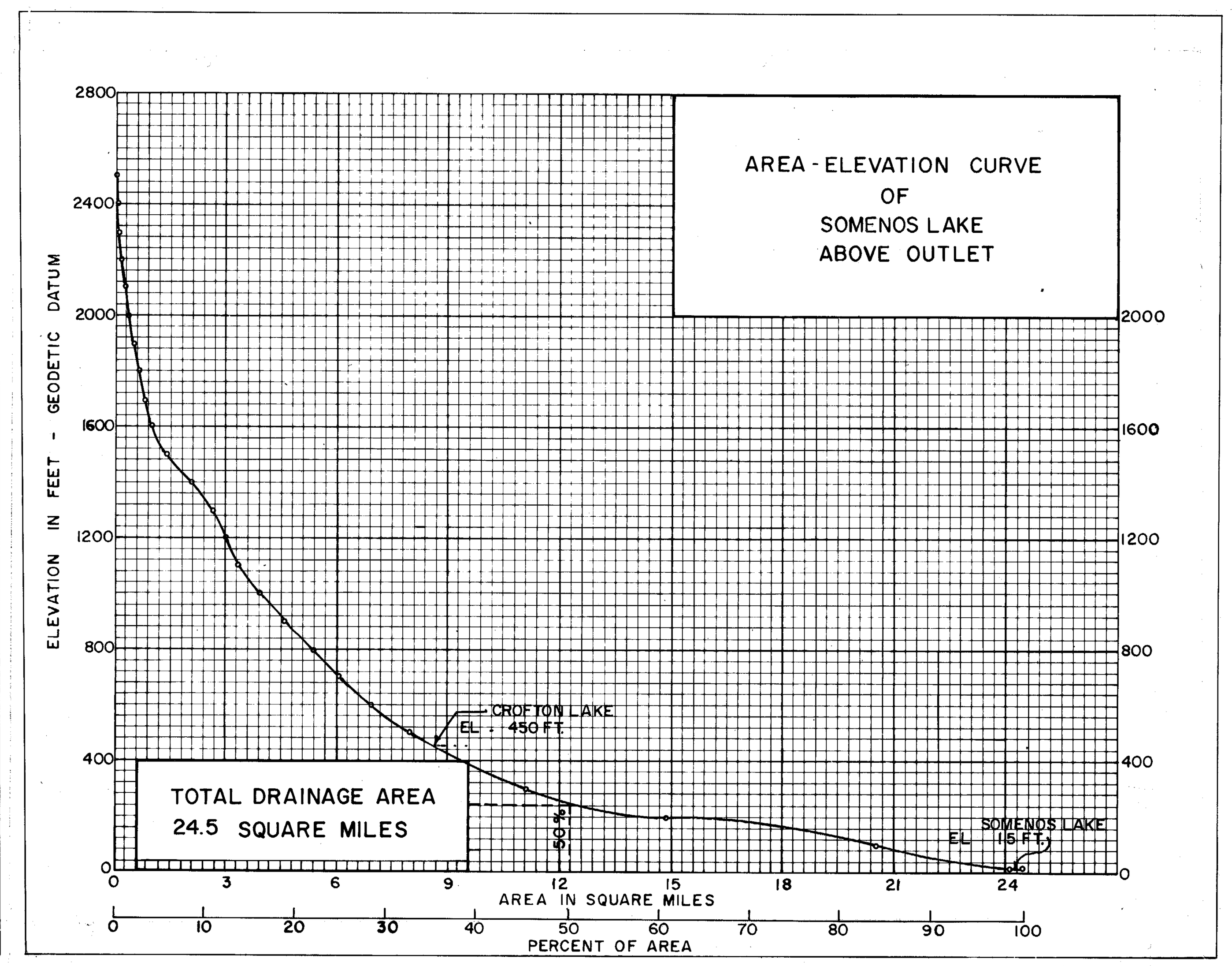
NOTE:

This information is considered historical as it represents channel conditions and configuration at the time of the survey only. User must accept responsibility of ensuring that the accuracy and completeness of provided data is suitable for the needs of the project or study. It is provided "as is" without warranty of any kind, whether express or implied. Under no circumstances will the Government of British Columbia be liable to any person or business entity for any direct, indirect, special, incidental, consequential, or other damages based on any use of this information.

MAPPING DATA			STORAGE CAPACITY				REMARKS
CONTOUR ELEVATION		Area in Acres	Depth of Storage in Feet	Area in Acres	STORAGE IN ACRE-FEET		
Geodetic Datum	Local Datum				Net	Gross	
-6.9		0.0	-19.9	0.0		0	Low Point Lake Bottom
-6.0		17.4	-19.0	17.4	7.8	8	
-4.0		58.6	-17.0	58.6	76	84	
-2.0		87.0	-15.0	87.0	146	229	
0.0		118.9	-13.0	118.9	206	435	
2.0		150.9	-11.0	150.9	270	705	
4.0		190.7	- 9.0	190.7	342	1046	
5.0		205.8	- 8.0	205.8	198	1245	
10.0		234.9	- 3.0	234.9	1102	2346	
13.0		241.9	0.0	241.9	715	3061	High Point in Channel
15.3		247.4	2.3	247.4	563	3624	







NOTES

1. This map has been prepared from field surveys carried out by the Surveys Section, Planning and Surveys Division, Water Investigations Branch, Ministry of the Environment, Province of British Columbia.
2. SURVEY DATA:
   a) Horizontal control was established by Tellurometer Traverse.
   b) Subaqueous contours were determined by Raytheon Depth Sounder Model DE-119D.
   c) Bathymetric fix is made independent by having simultaneous observations to the transducer taken by theodolite from two shore stations.
   d) Photogrammetric mapping was obtained using the Multiplex Projector and mapped at scale: 1 inch = 500 feet.
   e) Shoreline has been prepared by enlarging sheets 3 and 7 of Drawing No. M 75 produced by the Map Production Division, Surveys and Mapping Branch, Lands Service.
   f) The survey was carried out during the period of June, 1977.
3. DATUM:
   a) Coordinates are polyconic rectangular referred to Latitude 49° and Longitude 123°.
   b) The horizontal control for the bathymetric plan is based on Station UPROAR, Bolt No. 4463 established by Field Operations Division, Surveys and Mapping Branch, 1970.
   c) Elevation (feet) are referred to Bench Mark No. 73 C015, established by Geodetic Survey of Canada, 1973.
4. FIELD BOOKS:
   Survey Data are recorded in Field Book No.s 2158 F-2 and 2158 F-4.
5. AIR PHOTOGRAPHS:
   B.C. 5001: frames 210 to 214 inclusive, exposed May 17, 1958. Photo scale: 1 inch = 1000 feet.
6. MAP PRODUCTION DIVISION
   Map Programme No.: Job No. M 75 and mapped at scale 1 inch = 500 feet.

LEGEND

- TRIANGULATION STATION
- REFERENCE MONUMENTS:
  - P. CON. OR P. ROCK
  - 50000 HOR. CONTROL POINT
  - 60000 VERT. CONTROL POINT
- AIR PHOTO CENTRE
- ROAD, TRAIL, CREEK
- CREEK INTERMITTENT, SWAMP
- BOUNDARIES:
  - BASINS
  - SUB-BASINS

STORAGE LICENCES

LICENCE	PRIORITY DATE	AUTHORIZED ACRE-FEET	DEVELOPED ACRE-FEET

REFERENCES

DWG. NO.	DESCRIPTION	DATE
4984 B-2	MAP SHOWING DRAINAGE AREAS AND AREA ELEVATION CURVES.	FEB. 1978.
A 5177-1	PLAN SHOWING AREA SUBJECT TO FLOODING AT HIGHWATER LEVELS	FEB. 1978.

REVISIONS

NO.	DESCRIPTION	DATE
1	DETAILS	JUNE 1979

SURVEYED: T. DIGNAN
DATE: JUNE 16, 1977
DESIGNED:
DRAWN:
TRACED: B.W.
CHECKED: J. Waberski
DATE: FEB. 1978.

BRITISH COLUMBIA
MINISTRY OF THE ENVIRONMENT
ENVIRONMENTAL AND ENGINEERING SERVICES
WATER INVESTIGATIONS BRANCH

STORAGE INVENTORY PROGRAMME
COWICHAN BASIN — VANCOUVER ISLAND SYSTEM

BATHYMETRIC PLAN OF SOMENOS LAKE

APPROVED: Robert J. Harris DATE: FEB. 1978.
HEAD, SURVEYS SECTION PLANNING & SURVEYS DIV.

FILE NUMBERS
BRANCH:
INVENTORY 0305080 - 36
SCALE: 1 inch = 200 ft.
SURVEY PROJECT NO. 75 - F2
DWG. NO. 4984 - 3
SHEET 1 of 1

272027 D D SURVEYS

Full size negative available