



Sandy Lake



Sandy Lake 2011

LAKE INVENTORY MAP SANDY LAKE

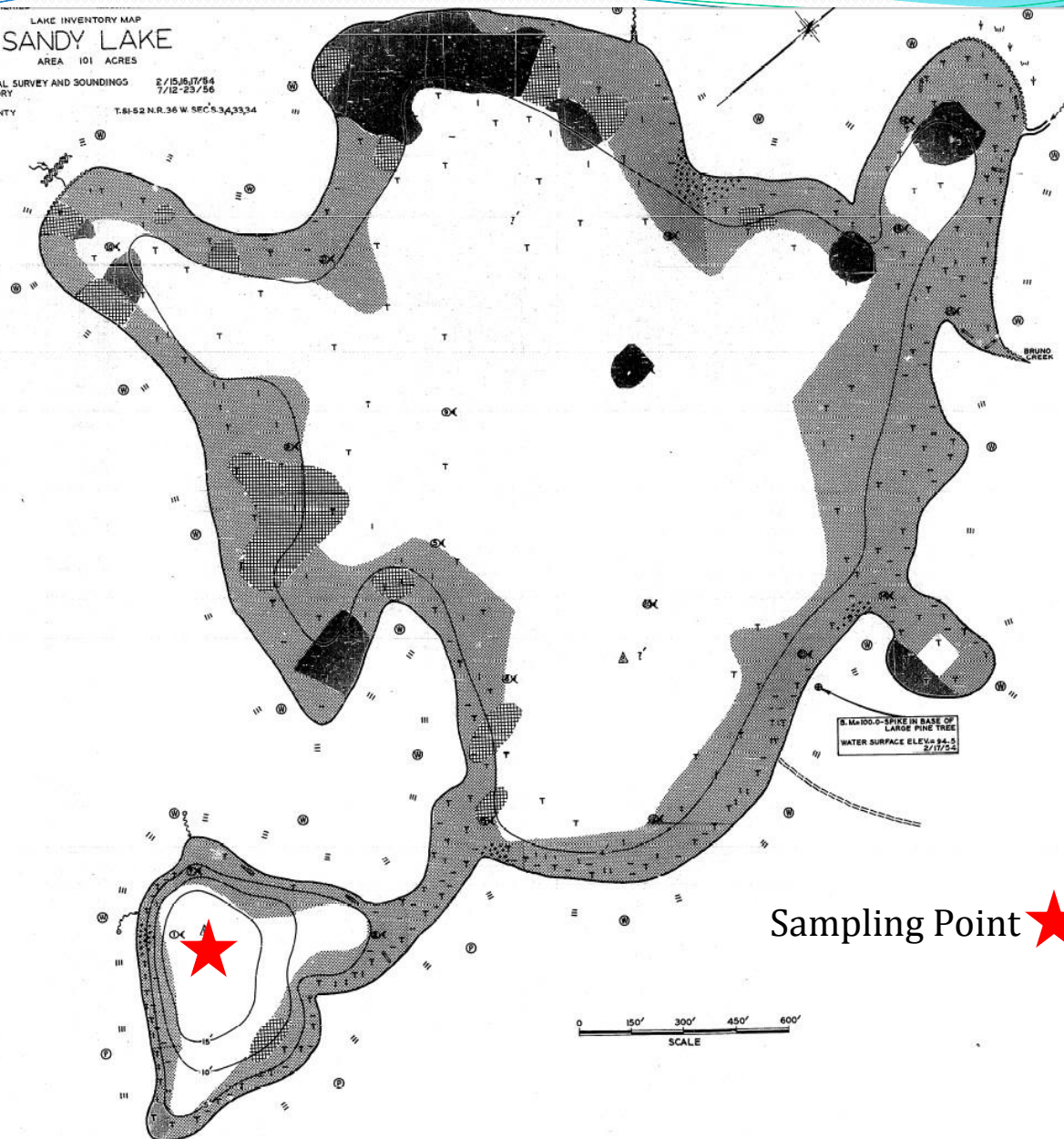
AREA 101 ACRES

MARGINAL SURVEY AND SOUNDINGS
INVENTORY

2/15/67/84
7/12-23/56

HOUGHTON COUNTY

T.81-52 N.R.36 W. SEC.5-34,33,34



LEGEND

BOTTOM

- Sand
- Sand and Fibrous peat
- Fibrous peat
- Pulpy peat
- Gravel
- Deadhead

OUTLINE & CONTOURS

- Shoreline
- Contours

SHORE FEATURES

- Slope
- Improved road
- Unimproved road
- Encroaching shore
- Spring
- Wooded
- Pasture
- Marsh
- Brush
- Inlet
- Outlet
- Beaver dam

VEGETATION

- Emergent
- Submergent
- Floating

STATIONS

- Temp. chem. analysis
- Fish sample

Sampling Point ★

0 150' 300' 450' 600'
SCALE

Temperature & Oxygen Profile: Sandy Lake

DEPTH (m)	TEMPERATURE (°F)	D.O. (mg/L)
Surface	82	6.92
1.0	78	6.16
2.0	65	0.25
3.0	54	0.09
4.0	49	0.04
5.0	47	0.03

Review of Findings: Sandy Lake

PARAMETER	FINDING	INTERPRETATION
Lake Type	Drainage	Inlet and outlet
pH	5.99	Mildly acidic
Alkalinity	ND (ppm)	High sensitivity to acid rain
Hardness	6.1 ppm	Soft water
Secchi (clarity)	3.5 feet	Very poor
Chlorophyll 'a'	0.8 ppb	Very little planktonic algae
Tot. Phosphorus	Non detect (ppm)	Very good/excellent quality
Total Nitrogen	0.81 ppm	Ratio N:P indicates P-limited
Trophic Status	TSI (chlorophyll) =28.4	Mesotrophic - Oligotrophic
Conductivity	20.5 μ S/cm	Very little dissolved material
<i>Escherichia coli</i>	ND (MPM/100ml)	No fecal contamination found

Historic comparison: 1980 MDEQ measures comparable.

Sandy Lake: Habitat & Observations

- Lightly developed
- Riparian areas in much of the lake natural
- Soft substrate; good large woody material; aquatic vegetation important cover
- Plant community dominated by watershield, *Potamogeton oakesianus*, and bladderwort.
- Watershield is dense; 15-20% lake covered