TOTAL acreage = 3.31 acres

5' Contour = 2.23 — 1.08 acres

10' contour = 1.50 — .52 acres

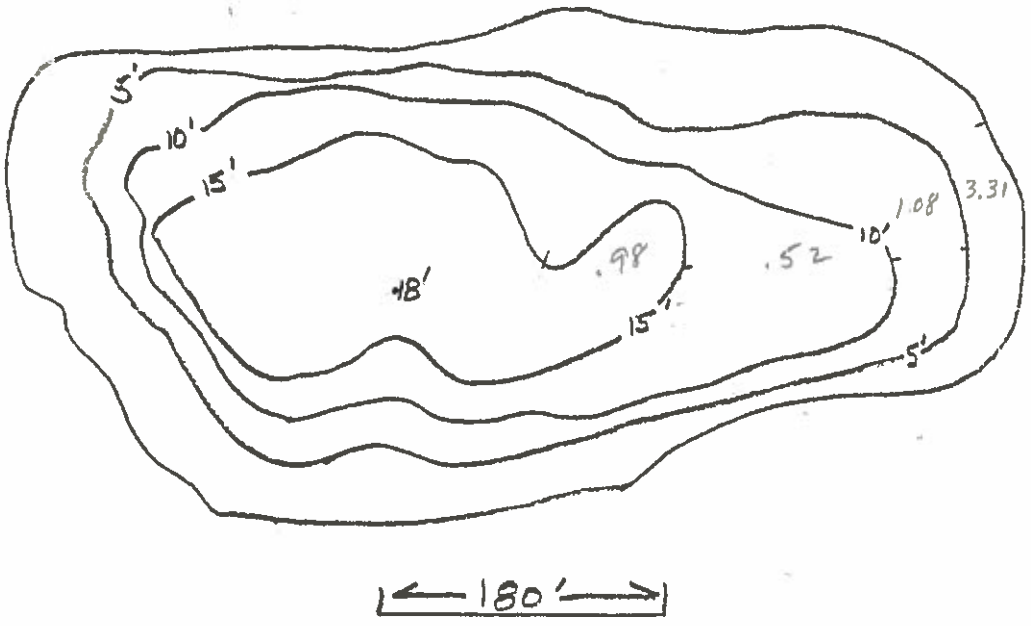
15' contour = .98 — .98 acres

2.58

BUFFALO LAKE

OCT. 25, 1985

28.4 acre feet



GLENN HWY.

Soundings by Petersville Council Through the ICE

Map drawn by Petersville

Buffalo LK

cu ft in 1 acre = 9,040,072.503

$V = \frac{h}{3}(a_1 + a_2 + \sqrt{a_1 a_2})$ pg #95 welch.

$V = \frac{5}{3}(144{,}504 + 97{,}200 + \sqrt{144{,}504 \cdot 97{,}200})$

$V = \frac{5}{3}(144{,}504 + 97{,}200 + 118{,}515)$

$V = \frac{5}{3}(360{,}219)$

$V = 600{,}365$ cubic ft parameter of LK (3.31 acres)

$V = \frac{5}{3}(97{,}200 + 65{,}772 + \sqrt{97{,}200 \cdot 65{,}772})$

$V = \frac{5}{3}(97{,}200 + 65{,}772 + 79{,}956)$

$V = 404{,}880$ cu. ft. (2.23 acres)

$V = 5/3(65{,}772 + 42{,}768 + \sqrt{65{,}772 \cdot 42{,}768}$

$V = \frac{5}{3}(65{,}772 + 42{,}768 + 53{,}037)$

$V = \frac{5}{3}(161{,}577) = 269{,}295$ cu ft. (1.5 acres)

$V = \frac{5}{3}(42{,}768 + 1 + \sqrt{42{,}768 \cdot 1})$

$V = \frac{5}{3}(42{,}768 + 1 + 207)$

$V = \frac{5}{3}(42{,}976)$

$V = 71{,}627$ cu ft (.98 acres)

TOTAL 1,238,449 cu ft or .1362 cu acres v.l.

1,238,449 ÷ 43,560 ↓ 28.4 A/FT