**Bradley Steckart**

**Survey Work 5/23/17 – Lake Five, Washington County, Hebbe’s Dock**

Trimble R10 survey grade gps to measure the elevation of the installed staff gauge.

The gps was locally calibrated based on monuments at: intersection of Plat & Monches Rd; CTH Q around 220’ east of Plat Rd.

Horizontal Datum: WI State Plane South Zone- NAD 27

Vertical Datum: NGVD 29

Mag Nail Control Point

Description: South Side of CTH Q on edge of asphalt; East of driveway for N95W26479 CTH Q

Northing: 439,494.63

Easting: 2,461,126.26

Elev: 981.98

Note:  Took 3 minute “Control Point” shot on point with GPS

New Staff Gauge installed 5/23/17

Location Description: NE corner of pier for N95W26479 CTH Q

Northing: 439,562.93

Easting: 2,461,098.18

Elev: 974.84

Note:  Took 3 minute “Control Point” shot on point with GPS on top of wood plank for staff gauge

Top of Staff Gauge correlates to 3.69.  Reading 2.00 on the staff gauge correlates to elevation: 973.15.  No Wake should read 2.89.

Old Staff Gauge

Location Description: NE corner of pier for N95W26479 CTH Q

Northing: 439465.19

Easting: 2,460,896.11

Elev: 974.79

Note:  Took 3 second “Topo Point” shot on point with GPS on top of wood plank for staff gauge

Based on the top of staff gauge correlating to 24” and No wake correlating to 15” The No Wake

Elevation is 974.04.

Due to the difficulty in acquiring a survey shot on top of the staff gauge estimated accuracy of the shot is +/- 0. 5”