Project _____

Observer _____ Surveyor _____ Firm _____

County _____ Section _____ Township _____ Range _____

Bureau of Surveying & Mapping

Mean High Water Data Collection Package

HEIGHT DIFFERENCE METHOD – COVER SHEET

If tide staff(s) are set on NGVD 1929 or local tidal datum; place a check mark in the appropriate box(es) below and proceed to page 2

☐ Control Tide Station ☐ Subordinate Tide Station

(this form to be filled out by observer – copy to be submitted to FDEP; use this form for determination of Staff Conversion Factor)

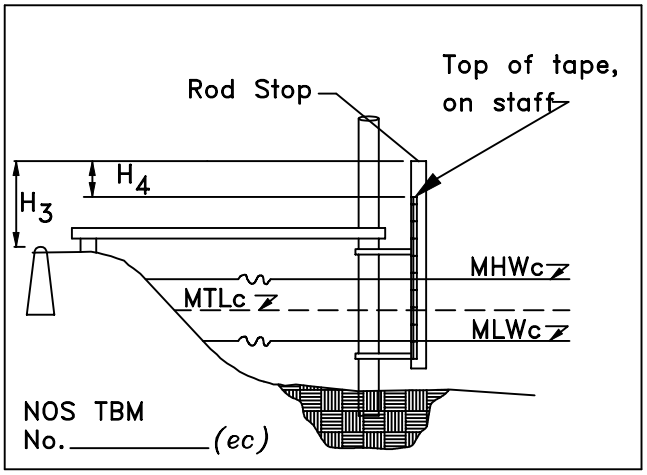
Control Tide Station Data:

(ac) No. 872 _ _ _ _, _____

(bc) Top of tape, on staff _____

(cc) H_3 = _____

(dc) H_4 = _____



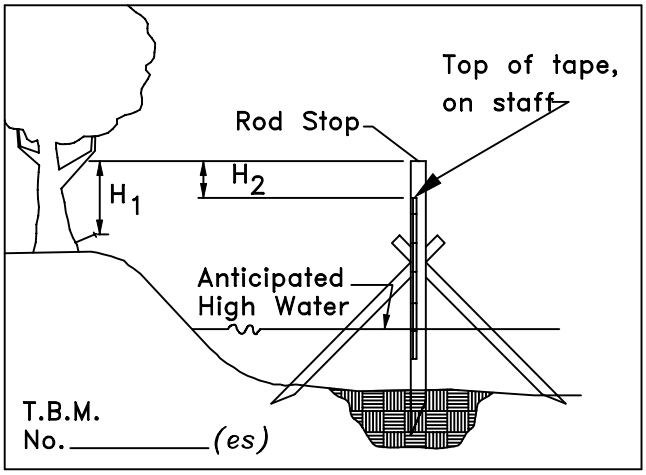
Subordinate Tide Station Data:

(as) No. _____

(bs) Top of tape, on staff _____

(cs) H_1 = _____

(ds) H_2 = _____



If NGVD is available at project site:

Description	Elevation (ft. NGVD)	on staff (feet)	source
NOS–TBM *(ec)*	*(fc)* _____ [1]	_ _ _	1
	+*(gc)* _____	_ _ _	H_3
Rod Stop	*(hc)* _____	_ _ _	
	–*(ic)* _____	_ _ _	H_4
Top of Tape on Staff	*(jc)* _____	*(bc)* _____	

Description	Elevation (ft. NGVD)	on staff (feet)	source
BM *(es)*	*(fs)* _____	_ _ _	
	+*(gs)* _____	_ _ _	H_1
Rod Stop	*(hs)* _____	_ _ _	
	–*(is)* _____	_ _ _	H_2
Top of Tape on Staff	*(js)* _____	*(bs)* _____	

To convert the published tidal datum to an "on staff" reading subtract *(jc)* from *(bc)* This is the staff conversion factor. *(kc)* _____

To determine "on staff" values of published tidal datums:

MHWc = *((kc)* _____ + (lc) _____ [1]) = *(mc)* _____ feet, on staff

To convert the computed MHWs on staff reading to NGVD subtract *(js)* from *(bs)*. This is the staff conversion factor. *(ks)* _____

To determine NGVD values of computed tidal datums:

MHWs = *((ms)* _____ [2] – (ks) _____)

MHWs = *(ls)* _____ feet, NGVD

Notes:

1 NOS Published Sheets

2 from (r) Page 2, Summary Sheet

FIGURE 10

Project _____

Observer _____ Surveyor _____ Firm _____

County _____ Section _____ Township _____ Range _____

Bureau of Surveying & Mapping

Mean High Water Data Collection Package

HEIGHT DIFFERENCE METHOD – SUMMARY SHEET

(this form to be filled out by observer – copy to be submitted to FDEP; use this form for:)

OBSERVATION SESSIONS 1–30

beginning date __/__/__ ending date __/__/__

OBSERVED RANGE OF TIDE (10% Ratio Factor)

Tide Station No./Name	Date	Water Level Observations		
		High Water on staff	Low Water on staff	Range of Tide (feet)
Subordinate	_____	HWs = _____	LWs= _____	Rs= _____
Control 872 _ _ _ _	_____	HWc = _____	LWc= _____	Rc= _____

WATER LEVEL OBSERVATIONS & SUMMARY

MHWc mean high water on staff, (see page 1)=_____

Formula: MHWs = HWs – (HWc – MHWc)

Obs. No.	Date	HWs	HWc	MHWs	Obs. No.	Date	HWs	HWc	MHWc
1					16				
2					17				
3					18				
4					19				
5					20				
6					21				
7					22				
8					23				
9					24				
10					25				
11					26				
12					27				
13					28				
14					29				
15					30				

Column A SubTotal _____

Column B SubTotal _____

Column A SubTotal + _____

Total = _____ /30

Average MHWs = _____

Note: The Height Difference Method for 30 day average is a reasonable approximation of MHWs but a correction may be necessary – if surveyor proposes less than 30 day observation period additional written instructions must be obtained from FDEP.