## Wisconsin DNR – Lake Level Monitoring Staff Gauge Survey Data Sheet

Lake Information						
Lake Name Antler	Lake			County Pol	k	
Data Collectors						
Primary Data Collector	Email	Email		Phone No. ( ) -		
Additional Data Collect	or(s)					
Reference Mark and	Staff Gauge Inform	nation				
Reference Mark #1 (RN	И1)			Reference Mark Type: Well Cap		
		Longitude:				
Reference Mark #2 (RN	/12)		Reference Ma	rk Type: <u>Top Bo</u>	ulder	
Latitude:	Longitude:		_ Mean Sea Level Yes □ No □ Elevation: <u>1240.40</u> Photograph □			
Location Description: _						
Reference Mark #3 (RN	//3)		Reference Ma	rk Type: <u>PK Nail</u>	top of Stump	
				_ Mean Sea Level Yes □ No □ Elevation: <u>1240.38</u> Photograph □		
Location Description:						
Staff Gauge						
local and the second se					on: 1231.88 Photograph 🗆	
Location Description:						
Date:			Che	eck one: Install 🗆 I	Midseason □ Removal □	
Survey Stage 1 - Instr	THE RESERVE OF THE PARTY OF THE	ht*				
	Reference		Fore sight		Water FS1 10.37	
	Mark 1		(FS1)	Elevation (CE1)	Elev. = 1234.14	
Given Elevation (GE <sub>RM1</sub> )						
Back sight 1 (BS1)	+ 0.48	C: " C	12.63	1221 00	Survey Equations:	
Height of Instrument (H		- Staff Gauge	2.13	= 1231.88	$HI1 = GE_{RM1} + BS1$	
	HI1 HI1	- Ref Mark 2 - Ref Mark 3	4.13	= 1242.38	CE1 = HI1 - FS1	
Survey Stage 2 – Rese				= 1240.38		
Julvey Stage 2 Rese	t mstrament at an	referre fiergine	Fore sight	Calculated		
	Staff Gauge		(FS2)	Elevation (CE2)		
Calculated Elevation1	1231.88	<				
Back sight 2 (BS2)	+12.60_		0.45		Survey Equations:	
Height of Instrument (H		- Ref Mark 1	0.45	_ = 1244.03	$HI2 = CE_{SG1} + BS2$	
	HI2	- Ref Mark 2	2.09	_ = 1242.39	CE2 = HI2 - FS2	
Quality Assumes Class	HI2	- Ref Mark 3	4.10	_ = 1240.38		
Quality Assurance Chec Reference Mark 1:		FS1 12.63			QA Equations:	
GE = CE2	BS1 <u>0.48</u> BS2 + <u>12.60</u>	FS2 + <u>0.45</u>			BS1 + BS2 = FS1 <sub>SG</sub> + FS2 <sub>RM1</sub>	
OL - OLZ		= 13.08			$GE_{RM1} = CE2_{RM1}$	
	13.08	- 13.08			C-RIVIT - CLERIVIT	

<sup>\*</sup>Accept Survey Stage 1 if QA checks within 0.01 ft. Use calculated elevations 1 for the rest of the season unless the gauge moves.



## Wisconsin DNR – Lake Level Monitoring Staff Gauge Survey Data Sheet

Lake Level Reading:	ft	Revised 2016
Site Diagram (including Sta	ff Gauge and Reference Marks)	



Notes			
<u> </u>			
			£
	-		1.0
	a a		
Data Management			
Survey Data uploaded to SWIMS?	Yes □ No □	Date:	Name:
Data Sheet scan uploaded to SWIMS?	Yes $\square$ No $\square$	Date:	Name:
<b>Equipment Maintenance</b>			
Replace bolts/screws on staff gauge?	Yes □ No □	Date:	Name:
Replace gauge plate on staff gauge?	Yes □ No □	Date:	Name:
Replace post or wooden board?	Yes 🗆 No 🗆	Date:	
replace post of wooden board:	163   110	Dutc	Name:

