Wisconsin DNR – Lake Level Monitoring

Staff Gauge Survey Data Sheet

Lake Information						
Lake Name Vincent I	_ake			County Poll		
Data Collectors						
Primary Data Collector	Email		Phone No.			
Additional Data Collector(s)						
Reference Mark and Staff				NW Cor	concrete patio	
Reference Mark #1 (RM1)	ference Mark #1 (RM1)			Reference Mark Type: Mean Sea Level Yes No Elevation: 1195.85 Photograph		
atitude: Longitude:ocation Description:						
Reference Mark #2 (RM2)			Reference Mar	rk Type: High point	on boulder	
Latitude:	_ Longitude:		_ Mean Sea Level Yes □ No □ Elevation: 1191.07 Photograph □			
Location Description: Bo	oulder on north	side of yard				
Reference Mark #3 (RM3)			Reference Mark Type: High Point on Rock			
Latitude:	_ Longitude:	-6 d 21	_ Mean Sea Level Yes \square No \square Elevation: 189.84 Photograph \square lerly of oak tree near water			
Location Description: ROCK	on south side	or yard 2' north	erly of oak tree i	near water		
Staff Gauge				X	1185 75	
Latitude:				Yes □ No □ Elevatio	n: Photograph	
Location Description:					1	
Date: Tin			Che	ck one: Install 🗆 🛝	1idseason □ Removal □	
Survey Stage 1 - Instrume	Reference	nt"	Fore sight	Calculated	Water FS1 9.39	
	Mark 1		(FS1)			
Given Elevation (GE _{RM1})	1195.85					
Back sight 1 (BS1)	<u>μ.99</u> 1196.84	Staff Causa	11.09	₌ [1185.75]	Survey Equations:	
Height of Instrument (HI1)	HI1	- Staff Gauge - Ref Mark 2	5.76	= 1191.08	$HI1 = GE_{RM1} + BS1$ $CE1 = HI1 - FS1$	
	HI1	- Ref Mark 3	7.00		CLI - HII - F31	
Survey Stage 2 – Reset ins		NAME AND ADDRESS OF THE OWNER, WHEN PARTY OF T		= 1189.84		
			Fore sight	Calculated		
	Staff Gauge		(FS2)	Elevation (CE2)		
Calculated Elevation1	1185.75	<				
Back sight 2 (BS2)	+11.15		1.05		Survey Equations:	
Height of Instrument (HI2)	1196.90	- Ref Mark 1		= 1195.85	$HI2 = CE_{SG1} + BS2$	
	HI2	- Ref Mark 2	5.82	= 1191.08	CE2 = HI2 - FS2	
Ouglitus Assumances Charles	HI2	- Ref Mark 3	7.05	= 1189.85		
Quality Assurance Checks: Reference Mark 1:	BS1 0.99	FS1 11.09			QA Equations:	
GE = CE2	BS2 + 11.15	FS2 + 1.05			BS1 + BS2 = FS1 _{SG} + FS2 _{RM1}	
GL - CLZ	12.14	= 12.14			$GE_{RM1} = CE2_{RM1}$	
	12.11				CERM1 - CEZRM1	

^{*}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.



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Lake Level Reading: 1.70	ft	Revised 2016
Site Diagram (including Staff Gauge a	nd Reference Marks)	



Notes			
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Data Management			
Survey Data uploaded to SWIMS?	Yes □ No □	Date:	Name:
Data Sheet scan uploaded to SWIMS?	Yes \square No \square	Date:	Name:
Equipment Maintenance			
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:	Name:

