Wisconsin DNR – Lake Level Monitoring

Staff Gauge Survey Data Sheet

Lake Information						
Lake Name Vincent	Lake			County Poll	<	
Data Collectors						
Primary Data Collector	Email		Phone No.			
Additional Data Collector(s)						
Reference Mark and Staff	f Gauge Inform	ation		NW Cor	concrete patio	
Reference Mark #1 (RM1)	Reference Mark #1 (RM1)					
			Reference Mark Type: Mean Sea Level Yes \square No \square Elevation: 1195.85 Photograph \square			
Location Description:				بنائنة بيائلية		
Reference Mark #2 (RM2)			Reference Mark Type: High point on boulder			
Latitude:	_ Longitude:		Mean Sea Level Yes \square No \square Elevation: 1191.07 Photograph \square			
Reference Mark #3 (RM3)			Reference Mark Type: High Point on Rock Mean Sea Level Yes No Elevation: 1189.84 Photograph nerly of oak tree near water			
Latitude:	_ Longitude:		_ Mean Sea Level Yes \square No \square Elevation: 1189.84 Photograph \square			
Location Description: Rock	c on south side	of yard 2' north	erly of oak tree	near water		
Staff Gauge				Moved Ga	uge	
Latitude:	_ Longitude:		_ Mean Sea Level Yes \square No \square Elevation: 1190.22 Photograph \square			
Location Description: Date: Tin				ck one: Install □ N	1idseason □ Removal □	
Survey Stage 1 - Instrume	nt at first heig	ht*				
	Reference		Fore sight	Calculated	Water FS1 9.91	
	Mark 1		(FS1)	Elevation (CE1)	Elev. = 1187.57	
Given Elevation (GE _{RM1})	1195.85					
Back sight 1 (BS1)	+ 1.63		11.72		Survey Equations:	
Height of Instrument (HI1)	1197.48	- Staff Gauge		= 1185.76	$HI1 = GE_{RM1} + BS1$	
	HI1	- Ref Mark 2	6.40	= 1191.08	CE1 = HI1 - FS1	
	HI1	- Ref Mark 3	7.64	= 1189.84		
Survey Stage 2 – Reset ins	trument at dif	ferent height				
	Staff Gauge		Fore sight (FS2)	Calculated Elevation (CE2)		
Calculated Elevation1	1185.76	_	(1.02)	Liovation (OLL)		
Back sight 2 (BS2)	+ 11.69				Survey Equations:	
Height of Instrument (HI2)	1197.45	- Ref Mark 1	1.59	₌ 1195.86	HI2 = CE _{SG1} + BS2	
(1.12)	HI2	- Ref Mark 2	6.36	= 1191.09	CE2 = HI2 - FS2	
	HI2	- Ref Mark 3	7.60	= 1189.85		
Quality Assurance Checks:						
Reference Mark 1:	BS1 1.63	FS1 11.72			QA Equations:	
GE = CE2	BS2 + 11.69	FS2 + 1.59			$BS1 + BS2 = FS1_{SG} + FS2_{RM1}$	
	13.32	= 13.31			$GE_{RM1} = CE2_{RM1}$	

^{*}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:	1.82	ft	Revised 2016
Site Diagram (including State	ff Gauge ai	nd Reference Marks)	



Notes			
			£
			1.0
	9		
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:	
replace post of woodell boald:	162 110	Date	Name:

