Department of the Interior U.S. Fish & Wildlife Service Water Resources Branch

PEG TEST OF ENGINEER'S LEVEL

Date Tested by						
Level type and ID						
		Fixed scale □				
Last test date	c left		Peg test			
TEST AS FOUND						
R ₄		d	2		IR ₂	
d,			Λ	d ₃	R ₃	
1			2		U	
* c = 100 x $\frac{(R_1+R_3) - (R_2+R_4-^{**}CR)}{(d_2+d_4) - (d_1+d_3)}$	_		П	R .	d	
$(d_2+d_4)-(d_1+d_3)$			1		1	
(+)-(+ -		2			
c=100 x (+) - (+)		3			
			4			
c=100 x	=		s foun	d		
ADJUSTMENT (level remains set u	p at 2 and si	ghted at I	₹₄)			
Adjust cross hair to $R_4 - \frac{cd_4}{100} =$			=			
Cross hair setting =		100				
REPEAT OF TEST AFTER ADJUST	MENT					
(+)-(+ -	. 1		R	d	
$c=100 \times (+)-$	+)		1			
25			2			
c=100 x			3			
c = As left			4			
* c is the collimation factor, the inclination	of the line of	(d ₂ + d ₄	1)/2	**C	R	
sight in ft/100 ft, minus when up from the instrument,		0 -	0 - 110		0	
and plus when down.		110 -	190		.001	
**CR is twice the curvature and refraction	on correction	190 - 245			.002	
for a sight of $\frac{a_2 + a_4}{2}$ ft. Its value, which	245 - 290			.003		
rod reading, is tabulated at right.	290 - 350			.004		

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PEG TEST OF ENGINEER'S LEVEL

Date Tested by					
Level type and ID					
a found	Fixed earle [7]				
Last test date c left	Pe	Peg test			
TEST AS FOUND					
R ₄	, d ₂	R ₂			
R ₁ d ₁		d ₃ R ₃			
V 1 (R ₁ +R ₃) - (R ₂ +R ₄ -**CR)	2	· · · · · · · · · · · · · · · · · · ·			
* c = 100 x $\frac{(R_1+R_3) - (R_2+R_4-^{**}CR)}{(d_2+d_4) - (d_1+d_3)}$	1	R . d			
c=100 x (+) - (+ -) 2				
(+)-(+)	3 4				
c=100 x==	As four	nd			
ADJUSTMENT (level remains set up at 2 and sig					
Adjust cross hair to B ₄ = Cd ₄ =	100 =				
REPEAT OF TEST AFTER ADJUSTMENT					
c=100 x (+)-(+ -		R d			
c=100 x	3				
c = As left	4				
* c is the collimation factor, the inclination of the line of	$(d_2 + d_4)/2$	**CR			
sight in ft/100 ft, minus when up from the instrument,	0 - 110	0			
and plus when down.	110 - 190	.001			
**CR is twice the curvature and refraction correction	190 - 245	.002			
for a sight of $\frac{d_2 + d_4}{2}$ ft. Its value, which increases the	245 - 290	.003			
rod reading, is tabulated at right.	290 - 350	.004			