

(Sep. 2000)

U.S. DEPARTMENT OF THE INTERIOR

U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT AND
GAGE INSPECTION NOTES

Meas. No. _____

Comp. by JTD

Checked by ANW/PC

Sta. No. _____

Sta. Name "Vanda" Lower Onyx Upper Wright of Lake

Date 5 Jan, 20 13 Party Don Donner, PC, TK, ANW

Width 27.5 Area 24.04 Vel. 0.71 G. H. _____ Disch. 17.15 cfs

Method 0.6 No. secs. _____ G. H. change _____ in _____ hrs.

Method coef. _____ Horiz. angle coef. _____ Susp. _____ Tags checked _____

Meter Type Pigmy Meter No. _____ Meter _____ ft. above bottom of wt.

Rating used _____ Spin test before meas. _____; after _____

Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS

Time					Inside	Outside
1335	Start	REW			1.10	1.10
		off set changed during meas				
		NO A of 0.67 during meas.				
1415	Finish				1.10	1.10
Weighted MGH						
GH correction						
Correct MGH						

Samples collected: water quality, sediment, biological, other _____

Measurements documented on separate sheets: water quality, aux./base gage, other _____

Rain gage serviced/calibrated _____

Weather: _____

Air Temp. _____ °C at _____

Water Temp: _____ °C at _____

Check bar/chain found _____

Changed to _____ at _____

Correct _____

Wading, cable, ice, boat, upstr., downstr., side bridge, _____ ft., mi. upstr., downstr. of gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following conditions: Flow: _____

Cross section: cobbles w/ gravel

Gage operating: _____ Record Removed _____

Battery voltage: _____ Intake/Orifice cleaned/purged: _____

Bubble-gage pressure, psi: Tank _____, Line _____; Bubble-rate _____ /min.

Extreme-GH indicators: max _____, min _____.

CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____

HWM inside/outside: _____

Control: _____

Remarks: _____

GH of zero flow = GH _____ - depth at control _____ = _____ ft., rated _____

.0 .10 .20 .30 .40 .50 .60 .70 .75
River at -

ANGLE COEF. FICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVA- TION DEPTH	REVO- LUTIONS	TIME IN SEC- ONDS	VELOCITY		ADJUSTED FOR HOR. ANGLE OR	AREA	DISCHARGE .80
							AT POINT	MEAN INVER- TICAL			
35	35.0	1	0		/	/	0			0	
REW	33	2	.54		3	44	0.097			1.08	0.105 .85
Skut	31	1.75	.60		5	50	0.127			1.05	0.133
13:35	29.5	1.5	.82		10	47	0.236			1.23	0.290
	28	1.25	.96		10	54	.209			1.20	0.251 .90
	27	1	1.04		15	52	.308			1.04	0.320 .92
	26	0.9	1.14		20	50	.415			1.03	.426
	25.2	0.8	1.26		30	56	.546			1.01	.550 .94
	24.4	0.7	1.26		30	50	.607			.882	.535 .96
	23.8	0.6	1.32		40	58	.694			.792	.550 .97
	23.2	0.6	1.34		30	43	.701			.804	.564 .98
	22.6	0.6	1.30		40	50	.800			.78	.624 .99
	22.2	0.4	1.28		40	45	.885			.512	.453
	21.8	0.4	1.18		50	56	.889			.472	.420
⊙	21.4	0.4	1.28		50	54	.920			.512	.471 1.00
	21.0	0.45	1.36		40	46	0.866			.612	.530
	20.5	0.5	1.28		40	43	0.925			.9	.832
	20.0	0.5	1.32		50	44	1.12			.66	.739 .99
	19.5	0.5	1.26		50	40	1.23			.63	.775 .98
	19	0.5	1.10		50	50	0.992			.55	.546 .97
	18.5	0.5	1.02		50	48	1.03			.51	.525 .96
	18	0.5	0.98		40	42	0.946			.49	.464
	17.4	0.6	1.04		50	43	1.15			.624	.718 .94
	16.8	0.6	.94		60	47	1.26			.564	.711 .92
	16.2	0.6	.88		60	47	1.26			.526	.665 .90
	15.6	0.6	1.0		60	48	1.23			0.6	.738
	15.0	0.7	.92		60	51	1.16			.644	.747
	14.2	0.8	1.02		40	47	0.849			.816	.693 .85
	13.4	0.9	1.00		40	46	0.866			.9	.779
	12.4	1.2	.60		50	48	1.03			.72	.742
	11	1.45	.66		40	52	0.77			.957	.737 .80
	9.5	1.5	.50		36	42	0.717			.75	.538

.0 .10 .20 .30 .40 .50 .60 .70 .75

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U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT AND
GAGE INSPECTION NOTES

Meas. No. _____

Comp. by JD

Checked by ANW/PC

Sta. No. _____

Sta. Name Vanda Continued

Date 5 Jun, 20____ Party _____

Width _____ Area _____ Vel. _____ G. H. _____ Disch. _____

Method _____ No. secs. _____ G. H. change _____ in _____ hrs.

Method coef. _____ Horiz. angle coef. _____ Susp. _____ Tags checked _____

Meter Type _____ Meter No. _____ Meter _____ ft. above bottom of wt.

Rating used _____ Spin test before meas. _____; after _____

Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS					
Time				Inside	Outside
	Start				
	Finish				
Weighted MGH					
GH correction					
Correct MGH					

Samples collected: water quality, sediment, biological, other _____

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Rain gage serviced/calibrated _____

Weather: _____

Air Temp. _____ °C at _____

Water Temp: _____ °C at _____

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Correct _____

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Cross section : _____

Gage operating: _____ Record Removed _____

Battery voltage: _____ Intake/Orifice cleaned/purged: _____

Bubble-gage pressure, psi: Tank _____, Line _____; Bubble-rate _____ /min.

Extreme-GH indicators: max _____, min _____.

CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____

HWM inside/outside: _____

Control: _____

Remarks: _____

GH of zero flow = GH _____ - depth at control _____ = _____ ft., rated _____

.0 .10 .20 .30 .40 .50 .60 .70 .75
 River at -

ANGLE COEF. FICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVA- TION DEPTH	REVO- LUTIONS	TIME IN SEC- ONDS	VELOCITY		ADJUSTED FOR HOR. ANGLE OR	AREA	DISCHARGE .80
							AT POINT	MEAN INVER- TICAL			
	8										
	Continued from other sheet										.85
	8	1	.40		26	40	.511			.4	0.204
	7.5	.25	0				0				.90
											.92
	Time 14:15										
											.94
											.96
											.97
											.98
											.99
											1.00
											.99
											.98
											.97
											.96
											.94
											.92
											.90
											.85
											.80

.0 .10 .20 .30 .40 .50 .60 .70 .75

SITE VISIT NOTES

Sta.
 Sta.
 Date
 Wid
 Met
 Met
 Met
 Ratin
 Mea
 Tim
 Wei
 GH
 Co
 Wac
 Mea
 con
 Cros
 Gag
 Batt
 Bub
 Extr
 CSC
 HW
 Cor
 Ren
 GH
 G

Omyx @ Vander

January 5, 2013

arrived @ 1310 w/ ANW, JP, DC, TK

weather: clear, sunny, mild, windy (up-valley)

JP and DC are completing a pygmy meas.

- see Q notes for details Q = 17.15 cfs

- addressed telemetry issues

- was notified 3 days ago of power problems

- all power connections were disconnected and re connected

- voltage @ all terminals

- CR1000 shows no evidence of post power lapse

Wt @ 1340 | OG @ 1342

st 2.17 | 1.10' staff plate reading.

WT 6.95 | 7.2 °C

SC 29.46 | 57.7 μS/cm

AT 8.94 | -

BY 13.31 | -

- re-set offset ~ 1430

- first data from SP card was backed on stream team computer

- new offset = -0.06 (was 1.01?)

- inside = outside ✓

- SP card formatted before re-setting

- data still intact though...

by ANW