

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT AND
GAGE INSPECTION NOTES

Meas. No. 78

Comp. by EJB

Checked by _____

Sta. No. B1

Sta. Name Trisco

Date 1/22, 20 10 Party LFS, BAM

Width 7.6 Area 2.03 Vel. 1.69 G. H. _____ Disch. 3.43

Method 16 No. secs. 26 G. H. change _____ in _____ hrs.

Method coef. 1.0 Horiz. angle coef. 1.0 Susp. Red Tags checked _____

Meter Type Hygmy Meter No. 8084025 Meter _____ ft. above bottom of wt.

Rating used 6199 Spin test before meas. 1:30; after OK

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

GAGE READINGS				
Time			Inside	Outside
	<u>1150</u>		<u>1.661</u>	<u>→ 1.50</u>
				<u>→ 1.41 - new</u>
	<u>Start</u>			<u>2.25</u>
	<u>Finish</u>	<u>1253</u>	<u>1.70</u>	<u>→ 1.35</u>
				<u>→ 1.56</u>
				<u>(flow tape down)</u>
Weighted MGH				
GH correction				<u>2.31</u>
Correct MGH				

PH = 7.400
Samples collected: water quality, sediment, biological, other _____
flume staff plate 21150

Measurements documented on separate sheets: water quality, aux./base gage, other _____
SC = 148.45 WT = 7.2 (SC probe)

Rain gage serviced/calibrated _____
(flume staff plate)

Weather: Sunny, m. 14 up, valley wind

Air Temp. _____ °C at _____
Water Temp: 6.6 °C at 1147

Check bar/chain found _____
Changed to _____ at _____
Correct _____

Wading, cable, ice, boat, upstr., downstr., side bridge, 40 ft., mi. upstr., downstr. of gage.

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

conditions: Flow: even, well distributed

Cross section: pebbles + sand

Gage operating: temp on ice Record Removed Yes, new SM installed

Battery voltage: 13.6 Intake/Orifice cleaned/purged: _____

Bubble-gage pressure, psi: Tank 900, Line 15; Bubble-rate 42 /min.

Extreme-GH indicators: max _____, min _____

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

HWM inside/outside: _____

Control: clear, water passing thru over flow weir

Remarks: on ice is on a rock & has shifted. Sand covering orifice height of 1.0 = 0.64 (top of orifice to water surface)

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			
	7.2	.15	0								
	7.5	.3	.42		40	45	.885			0	0
	7.8	.3	.33		60	46	1.28			.126	.112
	8.1	.3	.35		80	43	1.82			.099	.127
	8.4	.3	.39		80	40	1.95			.105	.191
	8.7	.3	.39		100	45	2.17			.117	.228
	9	.3	.37		100	46	2.12			.117	.254
	9.3	.3	.32		100	47	2.07			.111	.235
	9.6	.3	.35		100	48	2.03			.096	.199
	9.9	.3	.3		100	49	1.99			.105	.213
	10.2	.3	.29		80	40	1.95			.09	.179
	10.5	.3	.3		100	49	1.99			.087	.170
	10.8	.3	.3		80	50	1.57			.09	.179
	11.1	.3	.22		80	48	1.63			.09	.141
0	11.4	.3	.25		80	54	1.45			.066	.108
	11.7	.3	.2		60	42	1.40			.075	.109
	12	.3	.2		60	47	1.26			.06	.084
	12.3	.3	.25		60	41	1.44			.06	.076
	12.6	.3	.3		80	44	1.78			.075	.108
	12.9	.3	.3		80	48	1.63			.09	.160
	13.2	.3	.2		80	44	1.78			.09	.147
	13.5	.3	.25		80	48	1.63			.06	.107
	13.8	.3	.15		60	43	1.37			.075	.122
	14.1	.3	.15		60	49	1.21			.045	.062
	14.4	.35	.15		60	49	1.21			.045	.054
	14.8	.2	0		60	49	1.21			.052	.063
					REW @ 1253					0	0
	7.6	7.6								2.03	3.43

.85
9/2
90
92
94
96
97
98
99
1.00
621

.99
98
97
96
94
92
90

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