9-275-F
(Apr. 93)

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Meas. No. G

Comp. by SLH

WATER RESOURCES DIVISION

Sta. No. F9 Olean Crk. **DISCHARGE MEASUREMENT NOTES** Checked by

Date Dec 7, 19 2005 Party SLH, JCK, JB 1.933

Width 6.5 Area ~~2.037~~ 2.025 Vel. ~~.803~~ 0.784 G.H. Disch. ~~1.906~~ cfs

Method No. secs. 11 G.H. change in hrs. Susp.

Method coef. Hor. angle coef. Susp. coef. Meter No.

Type of meter Date rated Tag checked

Meter ft. above bottom of wt. Spin before meas. after

Meas. Plots % diff. from rating. Levels obtained

GAGE READINGS						WATER QUALITY MEASUREMENTS
Time	Inside stg	wt	GC	volts	Outside	No Yes ✓ Time Samples Collected
1536	4.09	8.11	29.9	14.45		No ✓ Yes Time Method Used
		8.1	17.4			EDI EWI Other
1551	4.19	7.66	29.7	1395		SEDIMENT SAMPLES
1632	4.07	7.64	30.18	14.03		No Yes Time Method Used
						EDI EWI Other
Weighted M.G.H.						BIOLOGICAL SAMPLES
G.H. correction						Yes Time
Correct M.G.H.						No Type

Check bar. chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge 150 feet, mile, above, below gage.

Measurement rated excellent(2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow surface ripples

Cross section rocky, even dist. of flow.

Control

Gage operating Weather cloudy, gusty

Intake/Orifice cleaned Air °C@ Water °C@

Record removed Extreme Indicator: Max. Min.

Manometer N_2 Pressure Tank 1900 Feed 10 Bbl rate 52 per min.

CSG checked Stick reading

Observer

HWM outside, in well

Remarks

G. H. of zero flow ft. Sheet No. of sheets

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

River at—

Angle coefficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY: At point	VELOCITY: Mean in vertical	Adjusted for hor. angle or	Area	Discharge	
6	0	0.5	bank							—		
7	1	0.75	.2		2	45	0.07			0.150	0.011	.85
7.5	1.5	0.50	.25		3	45	0.10			0.125	0.012	
8	2	0.50	.2		22	45	0.50			0.100	0.050	
8.5	2.5	0.50	.4		23	45	0.52			0.200	0.104	.90
9	3	0.50	.45		30	45	0.67			0.225	0.151	.92
9.5	3.5	0.50	0.5		69	45	1.50			0.250	0.376	
10	4	0.50	0.5		78	45	1.70			0.250	0.424	.94
10.5	4.5	0.50	0.5		108	45	2.34			0.250	0.584	.96
11	5	0.50	.4		37	45	0.82			0.200	0.164	.97
11.5	5.5	0.50	.35		9	45	0.22			0.175	0.039	.98
12	6	0.50	.2		7	45	0.18			0.100	0.018	.99
12.5	6.5	0.25	0		—	45				—		
W//	W//						$\bar{V}$//			A//	Q//	
⊙	6.5	6.5					0.784			2.025	1.933	1.00

.99 .98 .97 .96 .94 .92 .90 .85