Form 9-275-G
(July 1994)

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION

DISCHARGE MEASUREMENT NOTES

59

Meas. No. _____

Sta. No. Commonwealth Str_C1

Comp. by _____

Checked by CHW

Date 1/26/07, 19__ Party ESG LFS

Width 8.8 CHW Area 3.783 CHW Vel. .57 CHV G. H. _____ Disch 2.154 CHV

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

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

Type of meter pygmy Date rated _____ Tag checked _____

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

Meas. plots _____ % diff. from _____ rating. Levels obtained yes

GAGE READINGS					
Time		Inside			Outside
1000		1.686			2.301
					→ 8.699 CHW
1025		1.835			2.255
					→ 8.745 CHW
Weighted M.G.H.					
G.H. correction					
Correct M.G.H.					

WATER QUALITY MEASUREMENTS

No X Yes _____ Time _____

Samples Collected

No X Yes _____ Time _____

Method Used

EDI _____ EWI _____ Other _____

SEDIMENT SAMPLES

No _____ Yes _____ Time _____

Method Used

EDI _____ EWI _____ Other _____

BIOLOGICAL SAMPLES

Yes _____ Time _____

No _____ Type _____

Check bar. chain found _____ changed to _____ at _____

Wading, cable, ice, boat, upstr., downstr., side bridge 20 feet, mile, above, below gage

Measurement rated excellent (2%), good (5%), fair (8%), poor (over8%); based on the following cond:

Flow fairly uniform

Cross section sand w/ boulders

Control clear, holes in tarp, orifice found under sand

Gage operating yes Weather mostly sunny, warm

Intake/Orifice cleaned no Air _____ °C@ _____ Water _____ °C@ _____

Record removed yes Extreme Indicator: Max. _____ Min. _____

Nitrogen Pressure Tank 1700 Feed 10 Bbl rate 48 per min.

CSG checked _____ Stick reading _____

Observer _____

HWM _____ outside, in well

Remarks - ran levels, switched SM
* tape down

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 LEW	DEPTH 1005	OBSERVATION DEPTH	REVOLUTIONS	TIME IN SECONDS	VELOCITY AT POINT	VELOCITY MEAN IN VERTICAL	ADJUSTED FOR HOR. ANGLE OR	AREA	DISCHARGE
	7.00	0.40	0							–	
	7.8	0.70	.28		10	58	.197			.196	.039
	8.4	0.60	.20		15	42	.374			.120	.045
	9.0	0.60	.64		25	45	.565			.384	.217
	9.6	0.60	.72		30	44	.686			.432	.296
	10.2	0.60	.80		25	45	.565			.48	.271
	10.8	0.60	.85		40	50	.800			.51	.408
	11.4	0.60	.61		50	47	1.05			.366	.384
	12.0	0.60	.70		20	50	.415			.42	.174
	12.6	0.60	.46		15	41	.383			.276	.076
	13.2	0.60	.29		20	49	.423			.174	.074
	13.8	0.60	.31		15	52	.308			.186	.057
	14.4	0.60	.20		20	52	.401			.12	.048
	15.0	0.70	.17		15	48	.331			.119	.039
⊙	15.8	0.40	0						A_{tot} =	3.78	
		8.8								Q_{tot} =	2.128

.85 .90 .92 .94 .96 .97 .98 .99 1.00 .99 .98 .97 .96 .94 .92 .90 .85 .80

REW @ 1024

Equipment:
new WT & SC probe
natural control & rebar
Acubar PT
orifice, N_2, cone flow
CR10X
CR10X wiring Panel

1025 ~~0.6~~ 1) 1.770 (stage)
2) 6.1 (WT)
3) 32.1 (SC)
4) 11.0 (AT)
5) 13.7 (BN)

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

Form 9-276
(July 1967)

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STATION NUMBER

LEVEL NOTES

STREAM Commonwealth Str
LOCALITY
PARTY ESG & LFS DATE 1/26/07, 19

STATION	B. S.	HT. INST.	F. S.	ELEVATION	REMARKS
(X) RM1	2.890	12.890		10.00	given
RP2			3.598	9.292	
RP3			1.877	11.013	
orifice			4.723	8.167	
PZF			4.702	8.188	
TP1	3.804	13.014	3.680	9.210	
PZF			4.829	8.185	
orifice			4.851	8.163	
RP3			2.002	11.012	
RP2			3.725	9.289	
RM1			3.014	10.000	
					level # 116203

NO. ____ OF ____ SHEETS ____ COMP. BY ____ CHK. BY ____