Form 9-275-G
(July 1994)

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

DISCHARGE MEASUREMENT NOTES

Meas. No. 52

Sta. No. Commonwealth

Comp. by JJ

Checked by JJ

Date 1-15-05, 19~~__~~ Party JJ ICH

Width 14.9 Area 4.23 Vel. .584 G. H. _____ Disch 2.47

Method _____ No. secs. _____ 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

Time		Inside			Outside
921	stage	9.17	TD	2.36	8.65 JCK
			SC		67.1
			WT		6.4
1015	stage	9.06	TD	2.24	8.77 JCK
→ orifice under fed.					
1020	stage	9.02	TD	2.24	8.77 JCK
Weighted M.G.H.					
G.H. correction					
Correct M.G.H.					

WATER QUALITY MEASUREMENTS

No ____ Yes X Time ____

Samples Collected

No ____ Yes X Time 930

Method Used

EDI ____ EWI ____ Other ____

SEDIMENT SAMPLES

No X Yes ____ Time ____

Method Used

EDI ____ EWI ____ Other ____

BIOLOGICAL SAMPLES

Yes ____ Time ____

No X Type ____

Check bar. chain found _____ changed to _____ at _____

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

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

Flow mostly laminar

Cross section lot of backwater on right side / sandy

Control _____

Gage operating _____ Weather sunny / calm

Intake/Orifice cleaned _____ Air 11.1 °C@ _____ Water _____ °C@ _____

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

Nitrogen Pressure Tank 1600 Feed 10 Bbl rate _____ per min.

CSG checked _____ Stick reading _____

Observer _____

HWM _____ outside, in well

Remarks date / time wrong @ 29/04/917
change to 15/05/917
batt = 13.8 v

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

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
	3.6	.9	0		REW	@	932				
	5.4	2.55	.25	e	0	40		0		.638	0
	8.7	1.8	.40	.6	20	40		.511		.720	.368
	9.0	.3	.35	.6	30	46		.658		.105	.069
	9.3	.3	.38	.6	20	40		.511		.114	.058
	9.6	.3	.40	.6	30	44		.686		.120	.082
	9.9	.3	.45	.6	40	42		.946		.135	.128
	10.2	.3	.42	.6	40	46		.866		.126	.109
	10.5	.3	.39	.6	40	44		.904		.117	.106
	10.8	.35	.38	.6	30	40		.752		.133	.100
	11.2	.4	.41	.6	40	47		.849		.164	.139
	11.6	.4	.38	.6	40	47		.849		.152	.129
	12.0	.4	.38	.6	40	46		.866		.152	.132
	12.4	.4	.38	.6	40	46		.866		.152	.132
⊙	12.8	.4	.36	.6	40	43		.925		.144	.133
	13.2	.4	.40	.6	40	47		.849		.160	.136
	13.6	.4	.40	.6	50	47		1.05		.160	.168
	14.0	.4	.42	.6	40	51		.784		.168	.132
	14.4	.4	.40	.6	40	49		.815		.160	.130
	14.8	.4	.40	.6	25	43		.590		.160	.094
	15.2	.4	.32	.6	15	40		.391		.128	.050
	15.6	.4	.25	.6	15	43		.366		.100	.037
	16.0	1.45	.15	.6	7	47		.174		.2175	.038
	18.5	1.25	0		LEW	@	1011				
	14.9									4.226	2.47

.0 .10 .20 .30 .40 .50 .60 .70 .75 .80 .85 .90 .92 .94 .96 .97 .98 .99 1.00 .99 .98 .97 .96 .94 .92 .90 .85 .80