9-276
(Rev. 7-67)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Station Number ----------

LEVEL NOTES

Stream Comonwealth Stream - site C1

Locality site C1 - Station #13

Party HH-RR Date 12/7, 1993

STATION	B. S.	HT. INST.	F. S.	ELEVATION	REMARKS
RM1				10,000	
	3,180	13.180			
RP2		(SS)	3,895	9,285	
Top of orifice		(SS)	5,246	7,934	Top of nut
Orifice	7.934 - 0.015 =			7.919	Center of tube
RM1			3,181	9,999	close (-0.001)

No. ____ of ____ sheets Comp. by ____ Chk. by ____

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9-275-F
(Rev. 10-81)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

Meas. No. C1D

Comp. by HH

Sta. No. .....

DISCHARGE MEASUREMENT NOTES

Checked by .....

Commonwealth Stream - site C1

Date 12/7 ..., 19 93 Party HH-RR

Width 2.30 Area 0.467 Vel. 0.610 G.H. 8.56 Disch. 0.29

Method .6 No. secs. 9 G. H. change -0.01 in 114 hrs. Susp. .....

Method coef. ..... Hor. angle coef. 1.0 Susp. coef. ..... Meter No. .....

Type of meter Pygmy Date rated ..... Tag checked .....

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

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

GAGE READINGS RP2

Time		Inside CRP	ADR	Graphic	Outside
1052		8.61			8.57
1107		8.60			8.56
Weighted M.G.H.					8.56
G. H. correction					
Correct M.G.H.					

WATER QUALITY MEASUREMENTS

No ..... Yes. X ... Time .....

Samples Collected

No ..... Yes. X ... Time .....

Method Used

EDI ..... EWI ..... Other grab

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. 10. (feet), mile, above, (below gage)

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

Flow. STEADY - EVEN

Cross section SANDY & UNIFORM

Control ROCK WEIR NO ICE - SOME LEAKAGE SUSPECTED

Gage operating yes Weather .....

Intake/Orifice cleaned ..... Air -1 °C@ ..... Water ..... °C@ .....

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

Manometer N_2 Pressure Tank 1300 Feed ..... Bbl rate O.K. per min.

CSG checked ..... Stick reading .....

Observer .....

HWM ..... outside, in well

Remarks Worked on control, change orifice location after this measurement

G.H. of zero flow 8.36 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
1.0											
Rew 1056	1.0		0	.6	0	0					
	1.3		0.17	|	10	47					
	1.6		0.24	|	20	42					
	1.9		0.25	|	40	43					
	2.2		0.25	|	40	46					
	2.5		0.25	|	30	40					
	2.8		0.24	|	25	53					
	3.1		0.15	|	10	45					
Rew 11:05	3.3		.1	|	0	0					
⊙											

.80 .85 .90 .92 .94 .96 .97 .9 .9 1.0 .9 .9 .9 .9 .9 .9 .85

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GEOLOGICAL SURVEY

Meas. No. C1E

Comp. by HH

WATER RESOURCES DIVISION

Sta. No. ..... **DISCHARGE MEASUREMENT NOTES** Checked by .....

COMMONWEALTH STREAM - SITE C1

Date 12-7 ..., 19 93 ... Party H.H., RR

Width 2.40 ... Area 0.585 ... Vel. 0.684 ... G.H. 8.65 ... Disch. 0.40

Method .6 ... No. secs. 9 ... G.H. change 0 ... in 1/4 hrs. Susp. .....

Method coef. ..... Hor. angle coef. 1.0 ... Susp. coef. ..... Meter No. .....

Type of meter PYGMY ... Date rated ..... Tag checked .....

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

Meas. plots ..... % diff. from ..... rating. Levels obtained ... YES .....

GAGE READINGS RPZ

Time		Inside (CR-10)	ADR	Graphic	Outside
1315		8.66			8.65
1337		8.66			8.65
Weighted M.G.H.					8.65
G. H. correction					
Correct M.G.H.					

WATER QUALITY MEASUREMENTS

No ..... Yes. X .. 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. 10 ... feet, mile, above, below gage.

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

Flow ... Steady, even

Cross section ... uniform, even, sandy

Control ... Rock weir - after leak fixed

Gage operating ... yes ... Weather .....

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

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

Manometer N_2 Pressure Tank ..... Feed ..... Bbl rate ..... per min.

CSG checked ..... Stick reading .....

Observer .....

HWM ..... outside, in well

Remarks ... orifice relocated before this measurement

G.H. of zero flow 8.75 ... ft. Sheet No. ..... of ..... sheets

.0 .10 .20 .30 .40 .50 .60 .70 .75 .80 .85 .9

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
LEW											
1335	1.0		0.1	.6	0	0					
	1.3		0.24	|	20	41					
	1.6		0.27	|	35	43					
	1.9		0.3	|	45	40					
	2.2		0.3	|	40	41					
	2.5		0.27	|	30	51					
	2.8		0.25	|	20	42					
	3.1		0.22	|	15	49					
REW											
1335	3.4		.1	.6	0	0					
⊙											

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WATER RESOURCES DIVISION

Meas. No. C1F

Comp. by. HH

Sta. No. ..... **DISCHARGE MEASUREMENT NOTES** Checked by .....

Commonwealth Stream - site C1

Date 12/7 ., 19 93 Party HM-RR

Width 2.4 Area 0.714 Vel. 0.823 G. H. 8.69 Disch. 0.59

Method .6 No. secs. 9 G. H. change 0 in 1/4 hrs. Susp. .....

Method coef. ..... Hor. angle coef. 1.0 Susp. coef. ..... Meter No. .....

Type of meter Pygmy Date rated ..... Tag checked .....

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

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

GAGE READINGS RP2

Time		Inside (Zero)	ADR	Graphic	Outside
1506		8.70			8.69
1520		8.70			8.69
Weighted M.G.H.					8.69
G. H. correction					
Correct M.G.H.					

WATER QUALITY MEASUREMENTS

No ..... Yes. X ... 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. 10. feet, mile, above, below gage.

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

Flow steady, even

Cross section Sandy, uniform

Control Rock weir

Gage operating yes Weather .....

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

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

Manometer N_2 Pressure Tank ..... Feed ..... Bbl rate ..... per min.

CSG checked ..... Stick reading .....

Observer .....

HWM ..... outside, in well

Remarks 2 second measurement after we fixed leak in weir

G.H. of zero flow 8.24 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
CEW 1511	1.0		0.02	.6	0	0					
	1.3		0.25	|	30	43					
	1.6		0.36	|	45	41					
	1.9		0.40	|	50	44					
	2.2		0.41	|	35	41					
	2.5		0.30	|	30	43					
	2.8		0.30	|	25	41					
	3.1		0.25	|	30	43					
RCW 1518	3.4		0.20	|	0	0					

.80 .85 .90 .92 .9 .9 .9 .9 .9 1. .9 .9