Form 9-275F
(Apr. 2001)

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

Meas. No. 25
Comp. by Aquacalc
Checked by _____

Sta. No. _____
Sta. Name F10 - Delta
Date Jan 3 , 2003 Party PAS
Width 8.00 Area 1.36 Vel. 0.26 G.H. _____ Disch. 0.36
Method 0.6 No. secs. _____ G.H. change _____ in _____ hrs.
Method coef. 1.0 Horiz. angle coef. 1.0 Susp. Rod Tags checked OK
Meter Type Pygmy Meter No. _____ Meter _____ ft. above bottom of wt.
Rating used 6-99 Spin test before meas. 1:15 ; after OK
Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS						Tdwn
Time	Tdwn				Inside	Outside
	ft					
16:40	1.09				4.38	4.432
	Start					
16:52					4.38	
18:00	1.11					4.412
18:04					4.30	
	Finish					
Weighted MGH						
GH correction						
Correct MGH						

Samples collected: water quality, @ 17:10
sediment, biological, other _____

Measurements documented on separate sheets: water quality, aux./base gage, other _____

Rain gage serviced/calibrated ____

Weather: clear; 15 mph SSW.
Air Temp. 30 °F at 16:52
Water Temp. 6.90 °C at 17:10 OG
Check bar/chain found _____
Changed to _____ at _____
Correct _____

Wading, cable, ice, boat, upstr., downstr., side bridge, 80 ft., mi. upstr., downstr. of gage.
Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following
conditions: Flow: even flow lines
Cross section: gravel, sand, cobble

Gage operating: _____ Record Removed _____
Battery voltage: _____ Intake/Orifice cleaned/purged: _____
Bubble-gage pressure, psi: Tank 1800 , Line 10 ; Bubble-rate 32 /min.
Extreme-GH indicators: max _____ , min _____ .
CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____
HWM inside/outside: _____
Control: Sediment depositing near PZF, probes slightly buried in sand — could use maintenance
Remarks: _____

GH of zero flow = GH _____ - depth at control _____ = _____ ft., rated _____

Sheet No. _____ of _____ sheets

Time IG OG
Wtr Temp 17:10 [ ] 6.90 °C

Top of rebar elevation from 1/9/03 levels = 5.522 ~~5.521~~

① Tape down @ 16:40 = 1.09 → 5.521 − 1.09 = 4.432 ~~4.431~~ ft

② Tape down @ 18:00 = 1.11 → 5.521 − 1.11 = 4.412 ~~4.411~~ ft

Form 9-275G
(Sep. 2000)

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

Meas. No. _____
Comp. by AQC
Checked by Trans #4

Sta. No. _____ F10 Delta
Sta. Name [redacted]
Date Jan 3 , 2003 Party PAS
Width 8.00 Area 1.36 Vel. 0.26 G.H. _____ Disch. 0.36
Method 6 No. secs. _____ G.H. change _____ in _____ hrs.
Method coef. 1.0 Horiz. angle coef. 1.0 Susp. Rod Tags checked ok
Meter Type Pygmy Meter No. 90265 Meter _____ ft. above bottom of wt.
Rating used 6-99 Spin test before meas. 1.15 ; after ok
Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS						
Time					Inside	Outside
1640					4.38	4.40
	Start					
	Finish					
1804					4.30	4.38
Weighted MGH						
GH correction						
Correct MGH						

Samples collected: water quality, sediment, biological, other _____
@ 1710
Measurements documented on separate sheets: water quality, aux./base gage, other _____
Rain gage serviced/calibrated _____
Weather: Sunny, Breezy
Air Temp. 30 F °C at 1639
Water Temp. _____ °C at _____
Check bar/chain found _____
Changed to _____ at _____
Correct _____

Wading, cable, ice, boat, upstr., downstr., side bridge, 50 ft., mi. upstr., downstr. of gage.
Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following conditions: Flow: Even Flow lines
Cross section: gravel sand cobble

Gage operating: yes Record Removed _____
Battery voltage: _____ Intake/Orifice cleaned/purged: _____
Bubble-gage pressure, psi: Tank 1800 , Line 10 ; Bubble-rate 32 /min.
Extreme-GH indicators: max _____ , min _____ .
CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____
HWM inside/outside: _____
Control: Sed depositing near PZF - could use maintenance.

Remarks: @ 1640 Top of bubbler = 5.49 (12/2000) − 1.09' TPD = 4.40 → measure adjusted is 09:01 when using 9K 9a
GH of zero flow = GH 4.40 - depth at control .35 = 4.05 ft., rated _____

@ 1800 TPD = 1.11'

Sheet No. _____ of _____ sheets

corresponds to F10 Delta

@ 1652

01 = 4.38
03 = 5.56
04 = 12.8
06 = 0.41
07 = 26.2
17 = 157.3
21 = 687
22 = .413
31 = 136

02 = 0.000 Stage
WT
Batt V.

@ 1804

01 = 4.30
02 = 0.00
03 = 6.10
04 = 12.18
06 = 0.32
07 = 26.2
17 = 157.28
21 = 687
22 = .325
31 = 136

@ 1640 = Top of Rebar = 5.49 (Given)
− 1.09 TPD
4.40

@ 1720 SpC = 201
132
0.1
Temp = 6.90

@ 1820 = Top of Rebar = 5.49
− 1.11
4.38

Gauge. ~~Delta~~ ~~Crescent~~ Delta ✓ ✓

Date	3 - Jan - 03	3 - Jan - 03	- -
time of visit (start & finish)	1646	1804	
party	DAS		
cloud cover (%, type)	clear		
wind (spd, dir)	breezy, 15mph, SSW		
air temp	30 F		
surveying?	NO		
photo? (#, which camera)			
to do items? (y/n)			
which field notebook?	USGS Front Sheet		
Flow measurements (times)			
condition of control, probes	Sed building - could use maintenance, Probes slightly buried in sand		
method (meter, flume, visual)			
discharge (units)			
outside stage (staff or top down)	Rebar = 5.49 (given) - 1.09 = 4.40	= 4.38	
CR10 stage reading	4.38		
Inside Box			
CR10 Channels (times)	~~1650~~	1804	
stage	4.38 - corresponds to F10 Delta	4.30	
water temp	5.56	6.10	
conductivity	~~000~~ 136	136	
battery voltage	12.8	12.5	
air temp	30 F	30 F	
Year, Day, Time	03 3 1640		
settings o.k?	ok, but address is 09:01		
*0 ?	OK		
N2 tank pressure (psi)	1800		
N2 feed pressure (psi)	10		
purge?	yes @ 1700		
bubble rate (per min)	32		
Stream Chemistry (times)			
water temp. (units)	6.90	~~6.10~~	
sp. cond. (units)	~~201, 132, 0.1~~ 201, 132, 0.1	~~136~~	
pH and temp of probe			
instrument notes (i.e. cal. time)			
water samples collected?	yes @ 1710		