

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Water District

DISCHARGE MEASUREMENT NOTES

Meas. No.

Comp. by

Checked by _____

Station No.

Date 7/9/07 Party CB

Width _____ Area _____ Vel. _____ G.H. 1.86 Discharge _____

Method 6 No. Secs. _____ G.H. chng _____ in _____ hrs. Susp. _____

Method coef. _____ Hor. Angle coef. _____ Susp. Coef. _____ Meter No. 1963

Susp. Coef. _____ Meter No. 19633.

Meter No. 196537.

GAGE READINGS				Type of meter
Time		Recorder	Inside	Outside
12:40	1.86			
Weighted M.G.H.				
G.H. correction				
Correct M.G.H.				

Type of meter Sawyer Model

Date Rated _____ for rod, other _____

Meter _____ ft above bottom of weight

Spin before Meas. ✓ after ✓

Meas. plots _____ % diff. from rating _____

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

Check-bar, found _____
changed to _____ at _____

Correct _____

Levels obtained _____

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

conditions: cross section

Flow _____ Weather Sunny Windy

Other _____ Air _____ °F @ _____

Gage _____ Water _____ °F @ _____

Record removed _____ Intake flushed- U / L _____

Observer _____

Control

Remarks lots of grass & weeds in the ditch.

G.H. of zero flow _____ ft.

River at --											
Angle co-efficient	Dist from initial point	Width	Depth	Observation depth	Revolutions	Time in Seconds	VELOCITY		Adjusted for Horizontal Angle or	Area	Discharge
							At point	Mean in vertical			
EW	1.0		1.1				1.60			1.1	1.66
	2.0		1.1				1.60			1.1	1.66
	3.0		1.7				1.62			1.7	1.654
	4.0		1.9				.4			1.9	.76
	5		2.0				.25			2.0	.50
	6		2.2				.22			2.2	.48
	7		2.0				.14			2.0	.28
	8		1.85				.15			1.85	.28
	9		1.6				.25			1.6	.4
	10		1.4				.28			1.4	.39
	11		1.1				.28			1.1	.308
	12		.8				.26			.8	.208
REW	13										
5.32											
06											
cleaned some of the grass & plants out of the ditch directly above measurement.											

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Water District

DISCHARGE MEASUREMENT NOTES

Meas. No.

Comp. by

Checked by

Station No.

Date _____

Party

Width

Area

Vel.

Method 6

No. Secs.

G.H. ching.

Method coef.

Hor. Angle coef.

Susp. Coef.,

Meter No. _____

Meter No. 196537

GAGE READINGS

Type of meter

SWIFT Model 2100

Date Rated _____ for rod, other _____

Meter	ft above bottom of weight
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Spin before Meas.  after 

Meas. plots	% diff. from rating
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
17	100
18	100
19	100
20	100
21	100
22	100
23	100
24	100
25	100
26	100
27	100
28	100
29	100
30	100
31	100
32	100
33	100
34	100
35	100
36	100
37	100
38	100
39	100
40	100
41	100
42	100
43	100
44	100
45	100
46	100
47	100
48	100
49	100
50	100
51	100
52	100
53	100
54	100
55	100
56	100
57	100
58	100
59	100
60	100
61	100
62	100
63	100
64	100
65	100
66	100
67	100
68	100
69	100
70	100
71	100
72	100
73	100
74	100
75	100
76	100
77	100
78	100
79	100
80	100
81	100
82	100
83	100
84	100
85	100
86	100
87	100
88	100
89	100
90	100
91	100
92	100
93	100
94	100
95	100
96	100
97	100
98	100
99	100
100	100

Wading, cable, ice, boat, upstr., downstr., side

bridge _____ feet, mile, above, below

gage, and

Check-bar, found

changed to _____ at _____

Correct

Levels obtained

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

conditions: cross section

Flow

Weather Hot, light breeze

Other

Air _____ °F @ _____

Gage

Water °F @

Record removed

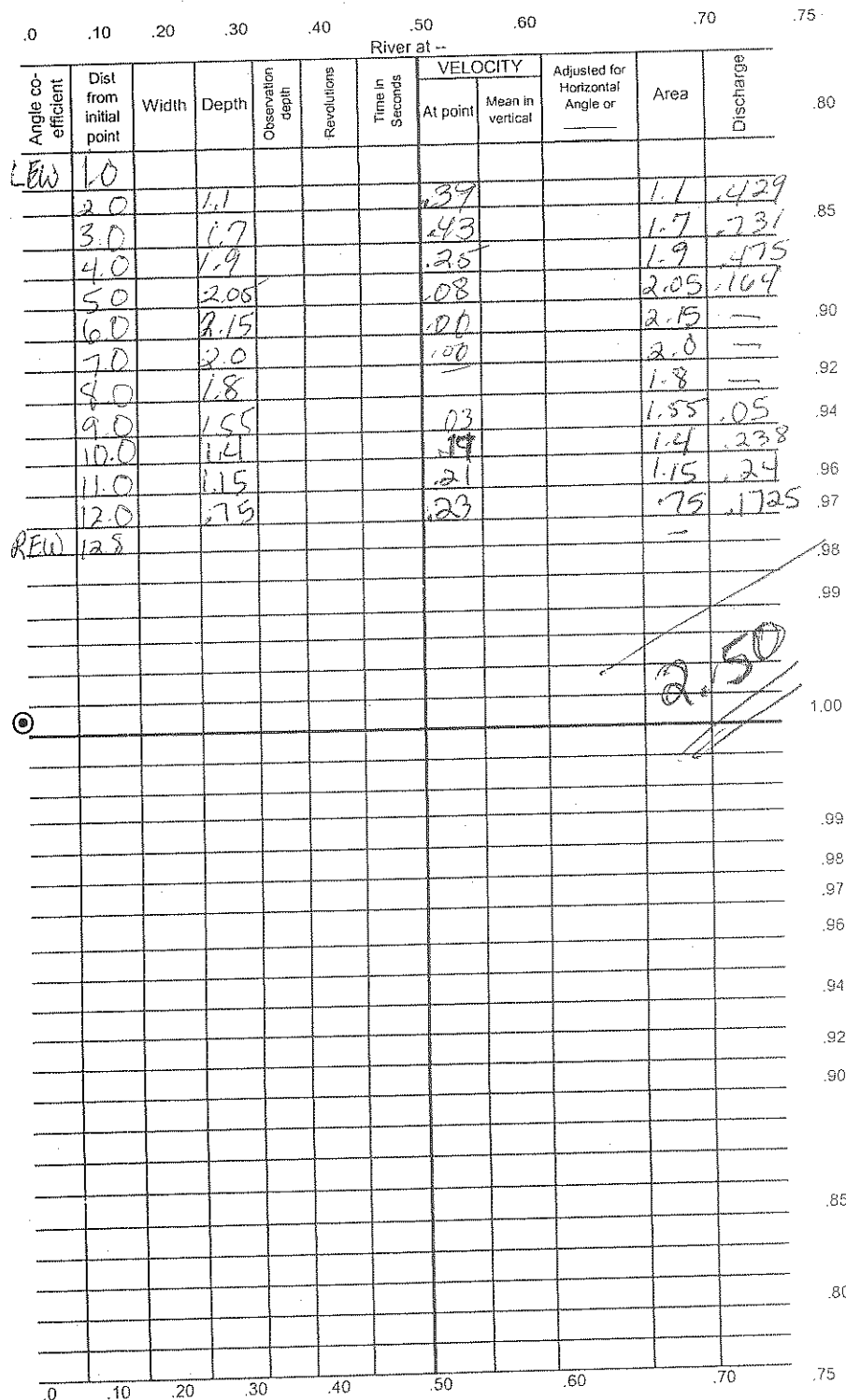
Intake flushed- U / L

Observer_

Control measured in front of the fulcrum
- Really messy

Remarks I couldn't get my staff gauge down to the floor because it has gravel on the bottom.

G.H. of zero flow _____ ft.





STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Water District

DISCHARGE MEASUREMENT NOTES

11:30am Muffer Ditch

Station No. _____ Meas. No. _____
Comp. by CB
Checked by _____

Date 6/27/07 Party CB

Width 12.2' Area _____ Vel. G.H. 1.71 Discharge 37.30 cfs

Method 4 No. Secs 26 G.H. chng _____ In _____ hrs. Susp. _____

Method coef. _____ Hor. Angle coef. _____ Susp. Coef. _____ Meter No. _____

GAGE READINGS				Type of meter _____
Time	Recorder	Inside	Outside	Date Rated _____ for rod, other _____
11:30				Meter _____ ft above bottom of weight _____
				Spin before Meas. _____ after _____
				Meas. plots _____ % diff. from rating _____
				Wading, cable, ice, boat, upstr., downstr., side _____
				bridge _____ feet, mile, above, below _____
				gage, and _____
				Check-bar, found _____
				changed to _____ at _____
Weighted M.G.H.				Correct _____
G.H. correction				Levels obtained _____
Correct M.G.H.				

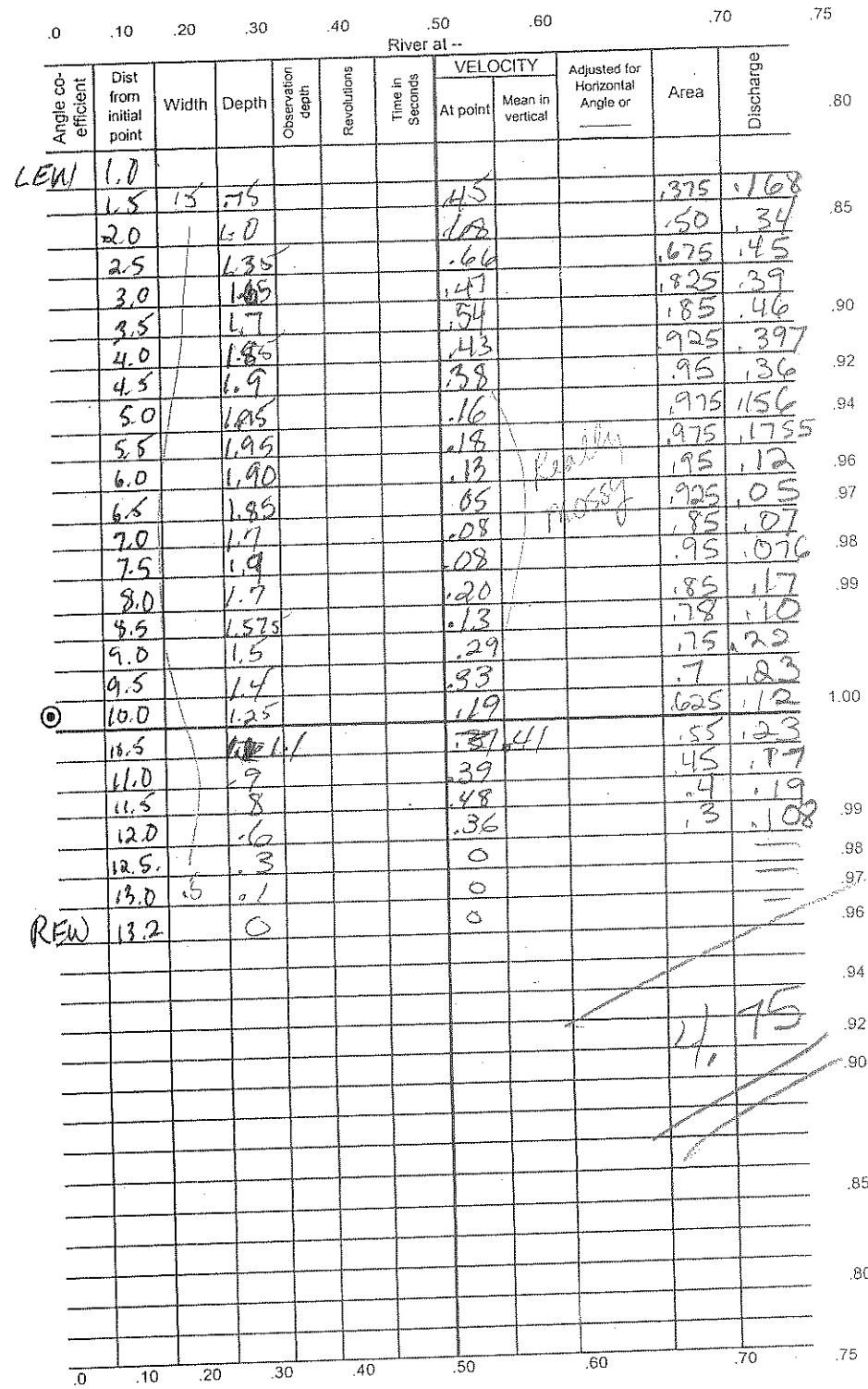
Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%) based on following conditions: cross section _____

Flow _____ Weather Sunny
Other _____ Air 76° °F@ _____
Gage _____ Water _____ °F@ _____
Record removed _____ Intake flushed- U/L _____
Observer _____

Control _____

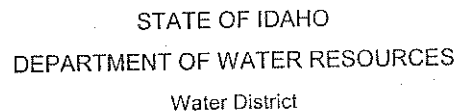
Remarks h_g 1.71 h_b 2.24
4' flume - Parshall

G.H. of zero flow _____ ft.



River at—											
Angle coef- ficient	Dist. from initial point	Width	Depth	Observa- tion depth	Rev- olu- tions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or -----	Area	Discharge
							At point	Mean in ver- tical			
1.5			0								
1.0	.5	.5					.59			.25	.13
1.5	.5	.6					.665			.3	.20
2.0	.5	.6					.63			.3	.19
2.5	.5	1.0					.60			.5	.30
3.0	.5	1.05					.56			.525	.29
3.5	.5	1.2					.45			.6	.27
4.0	.5	1.25					.51			.625	.32
4.5	.5	1.5					.41			.75	.31
5.0	.5	1.65					.26			.83	.22
5.5		1.7					.18			.85	.15
6.0		2.0					.19			1.0	.19
6.5		1.9					.12			.95	.11
7.0		2.0					.18			1.0	.18
7.5		2.1					.17			1.05	.18
8.0		2.1					.17			1.05	.18
8.5		2.1					.24			1.05	.25
9.0		2.05					.205			1.025	.30
9.5		2.0					.50			1.0	.50
10.0		1.85					.57			.925	.53
10.5		1.65					.62			.825	.51
11.0		1.1					.76			.55	.418
11.5		1.4					.88			.70	.616
12.0		1.2					.97			.60	.582
12.5		1.1					1.02			.55	.56
13.0	.5	.9					.78			.45	.351
13.5											
14.0											

7.84



Nutter Pitch.

Susp. Coef. _____ Meter No. 176331

G.H. of zero flow _____ ft.[illegible]



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
Water District

DISCHARGE MEASUREMENT NOTES

Meas. No. _____

Comp. by _____

Checked by _____

Station No. Ruffer Ditch.

Date 4/30/07 Party R. Holbrook, C Bird

Width 11-0 Area _____ Vel. G.H. 1.7 Discharge _____

Method 2/13 No. Secs. 21 G.H. chng _____ in _____ hrs. Susp. _____

Method coef. _____ Hor. Angle coef. _____ Susp. Coef. _____ Meter No. 196537

GAGE READINGS				
Time	Recorder	Inside	Outside	
				Type of meter <u>Swooper Meter.</u>
				Date Rated _____ for rod, other _____
				Meter _____ ft above bottom of weight
				Spin before Meas. _____ after _____
				Meas. plots _____ % diff. from rating _____
				Wading, cable, ice, boat, upstr., downstr., side _____
				bridge _____ feet, mile, above, below _____
				gage, and _____
				Check-bar, found _____
				changed to _____ at _____
				Correct _____
				Levels obtained _____
Weighted M.G.H. _____				
G.H. correction _____				
Correct M.G.H. _____				

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

conditions: cross section Silty bottom

Flow _____ Weather hot, windy

Other _____ Air _____ °F@ _____

Gage _____ Water _____ °F@ _____

Record removed _____ Intake flushed- U/L _____

Observer _____

Control _____

Remarks 4' Marshall flume

83% submerged

Used .6 below 2' and .2/.8 over 2'

G.H. of zero flow _____ ft.

River at --											VELOCITY		Adjusted for Horizontal Angle or	Area	Discharge
Angle co-efficient	Dist from initial point	Width	Depth	Observation depth	Revolutions	Time in Seconds	At point	Mean in vertical							
REW	1.0														
	1.5	.5	1.0				.5					.5	.25		
	2.0	.5	1.32				.63					.66	.42		
	2.5	.5	1.7				.54	.615				.85	.52		
							.69								
	3.0	.5	1.82				.65	.77				.91	.70		
							.89								
	3.5	.5	2.25				.50	.705				1.13	.79		
							.91								
	4.0	.5	2.04				.49	.605				1.02	.62		
							.72								
	4.5	.5	2.1				.28	.405				1.05	.43		
							.53								
	5.0	.5	2.1				.30	.525				1.05	.55		
							.75								
	5.5	.5	2.2				.38	.485				1.1	.44		
							.43								
	6.0	.5	2.2				.26	.435				1.1	.48		
							.61								
⑥	6.5	.5	2.18				.42	.55				1.09	.60		
							.68								
	7.0	.5	2.02				.43	.60				1.01	.61		
							.77								
	7.5	.5	1.92				.48	.535				.96	.52		
							.59								
	8.0	.5	1.9				.56					.95	.53		
	8.5	.5	1.62				.62					.81	.50		
	9.0	.5	1.32				.65					.66	.43		
	9.5	.5	1.0				.76					.5	.38		
	10.0	.5	.8				.63					.25	.16		
	10.5	.5	.625				.35					.31	.11		
	11.0	.5	.52				.07					.24	.02		
	11.5	.5	.1				0								
LEW	12.0	.5	0												
														</	

9.05