

12-4-2009

Ex. 280-US-477

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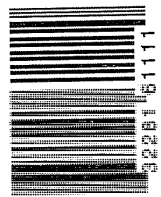
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Klamath
June 2007
SF Sprague DIS Brownsworth PHASIM

4 5/8" x 7" - 48 Numbered Pages



6 52261 61111 0

8

SF Sprague R. d/s Brownsburgh Cr.

Crew M. Gagner
N. Romero

In 9:52
Out 1:25

S.G. 13.D

weather: clear & sunny in p.m.
in misty a.m.

* started habitat survey - 40' d/s
of confluence with
in d/s Brownsburgh

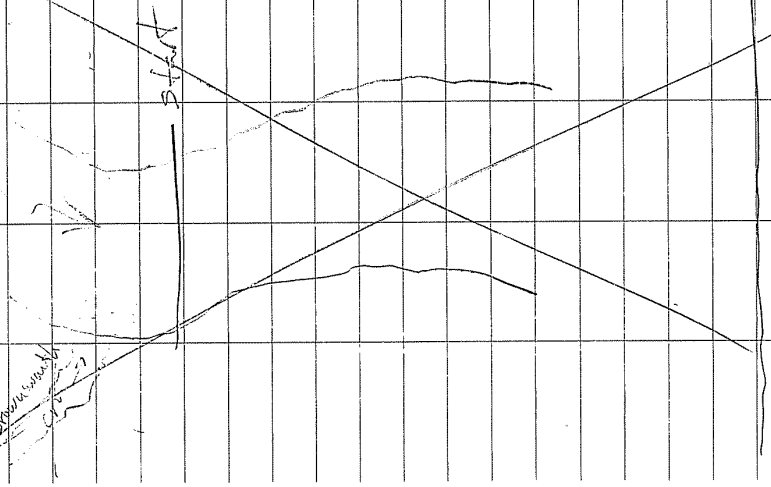
* stopped upon end

N 42° 23.57' T
W 120° 51' 57"

INSRS Macroinvertebrate Station # 2 (8/95)
T 375 R 15 E 52

9

SE Sprague Habitat Monitoring
8/6/95



Equipment: Nikon Level SW.

12		13	
STK	Unit	TR	Q
STA	HT	Depth	meas. instrument
BWS	HS	Vol	Corrections
BWP-1.0		0.0	0.0
RWT-2.1		0.95	0.89
22.0		1.0	1.58
24.0		1.40	1.12
26.0		1.40	2.42
28.0		1.45	3.01
30.0		1.40	3.08
31.0		1.20	3.36
32.0		1.20	3.00
34.0		0.90	2.80
36.0		0.90	2.55
38.0		1.10	2.59
40.0		1.2	3.14
42.0		1.20	0.68
44.0		1.0	4.17
46.0		1.30	3.37
48.0		0.90	3.76
50.0		1.20	0.24
52.0		1.1	3.63
54.7		1.15	3.52
56.0		1.30	3.00
58		1.30	0.31
60			

12		13	
STK	Unit	TR	Q
STA	HT	Depth	meas. instrument
BWS	HS	Vol	Corrections
BWP-1.0		0.0	0.0
RWT-2.1		0.95	0.89
22.0		1.0	1.58
24.0		1.40	1.12
26.0		1.40	2.42
28.0		1.45	3.01
30.0		1.40	3.08
31.0		1.20	3.36
32.0		1.20	3.00
34.0		0.90	2.80
36.0		0.90	2.55
38.0		1.10	2.59
40.0		1.2	3.14
42.0		1.20	0.68
44.0		1.0	4.17
46.0		1.30	3.37
48.0		0.90	3.76
50.0		1.20	0.24
52.0		1.1	3.63
54.7		1.15	3.52
56.0		1.30	3.00
58		1.30	0.31
60			

14	SF:	spray	d/s	Brownsville Co	01/27/07	15
STA	Depth	Vel	Comments			
62.0	1.1	1.37				Monday 23 - 11
62.6	0.95	0.59	up vel. break - sp			Tue 24 - 10.5
LWE 63.2	0.0	0.0				Wed 25 - 11.5
LWP = 73.2						Thur 26 - 11.5
			swiffer: 4099			Friday 0700 -
			laser: 7A			
			calls: 0175			

Possible Redband Redd (unit # 3 ripple)

#1

Length: 3.0'

width: 1.75'

X depth: 0.8'

velocity: 1.1 cfs

#2

2.75'

2.0'

1.0'

0.9

6/14/07

S.F. Sprague R/d/s Brownsworth

Crew: M. Gagnier
N. Romano

In Out
Time 9:45 3:45
5:6 5:80 5:80

Equipment: Nikon Level
Sufferer: 4079
PROP 4A
CAL: 0175

Riffle Level Coop & WISE
STA BS HI FS Eleva Rod

BM	4.49			100.00	
TR-1 HP		104.49	5.74	98.73 ✓	
TR-3 HP			5.51	98.90	
TR-3 HP	5.22			98.90	
TR-1 HP		104.18	5.48	98.64	
BM			4.21	99.91	
TR-1				100.00	*
TR-3			5.75	98.73 ✓	
TR-3			5.50	98.98	
TR-3	5.20			98.98	
TR-1		104.18			
TR-1			4.18	100.00	
TR-3			5.45	98.73 ✓	
BM			4.18	100.00	

18	Riffle	WSE	Cont.	FS	Cont.	Red	STA	Riffle Depth	TR-1 Vel	19 6/14/07
TR-1 HP	2,83	101.56					21.1	0.0	0.0	Comments
RWS				8.22	98.73	0.59	22	0.53	0.18	
MWS				8.53	93.95	0.92	24	0.78	0.51	
LWS				8.35	93.90	0.69	26	1.0	0.35	1/2 vel break
LWS				8.55	93.89	0.88	28	1.18	1.23	
MWS				8.37	93.95	0.76	30	1.20	1.57	
TR-2 HP	3,12				98.98		31	1.20	1.55	*
TR-2		102.10					33	0.70	1.02	
RWS				8.50	94.11	0.51	34	0.80	1.65	trace vegetation
MWS				8.80	94.10	0.80	36	0.55	1.02	trace vegetation
LWS				8.67	94.10	0.67	38	0.65	1.56	trace vegetation
TR-3 HP	5,81				98.98		40	0.80	1.84	
TR-3		104.79					42	0.80	2.03	(0.2' depth over by 6.18)
RWS				10.84	95.00	1.05	44	0.88	0.29	1/2 vel break
MWS				10.41	95.03	0.68	46	0.65	2.51	
LWS				10.15	95.01	0.45	48	0.92	1.46	
LWS				10.10	95.09	0.48	50	0.67	0.91	
MWS				10.31	95.04	0.56	52	0.95	0.22	1/2 vel break (alt. vel)
RWS				10.91	95.01	1.17	53, 7	0.80	0.52	1/2 vel break
							56.0	0.78	0.89	
							58	0.70	0.96	
							60	0.85	0.79	
							62.6	0.45	0.0	
							LWF= 62.7	0.0	0.0	

20 SFR Spine w/ls Bransworth C.v.		Rifle TR-2		06/14/07		Cammerds	
STA	Depth	Vel		Depth	Vel		
6.0	RWE	0.0	0.0	0.0	0.0		
7.5	0.2	0.0	u/s vel break / sig	0.95	0.41		u/s vel break
9.0	0.6	0.0	"	1.1	0.52		
10.5	0.90	0.23	u/s bld vel break	1.25	0.81	0.10	0.6
12.0	1.10	0.24	"	0.75	0.88		
13.5	1.32	0.26	"	0.45	1.03		
15.0	1.70	0.71	"	0.60	1.84		
16.5	1.25	1.41	top bld / cob	0.62	1.86		
18.0	1.23	2.23	"	0.60	1.89		
19.5	1.80	1.79 / 0.81	u/s bld	0.80	2.53		
21.0	1.68	2.14 / 0.45	"	0.68	1.67		
22.5	2.00	1.0 / 2.40	"	0.52	1.79		
24.0	0.78	0.88	top bld, u/s bld vel cov	0.35	1.97		top cobb
25.5	0.82	1.99	"	0.35	1.85		
27.0	0.40	2.12	"	0.40	1.17		
28.5	0.60	1.77	"	0.80	1.41		
30.0	0.70	1.74	"	0.55	1.60		
31.5	0.70	1.78	"	0.70	1.49		
33.0	0.90	2.00	"	0.60	1.44		
34.5	0.80	0.40	u/s vel break	0.60	1.20		
36.0	0.50	0.03	"	0.40	1.03		
37.5	0.60	0.68	"	0.0	0.0		RWE
38.8	0.25	0.0	0.1 ucb				
38.9	LWE	0.0	0.0				

21		Rifle TR-3		06/14/07		Cammerds	
STA	Depth	Vel		Depth	Vel		
40.0	0.0	0.0		0.0	0.0		
42.0	0.35	1.97		0.95	0.41		u/s vel break
44.0	0.35	1.85		1.1	0.52		
46.0	0.40	1.17		1.25	0.81	0.10	0.6
48.0	0.80	1.41		0.75	0.88		
50.0	0.55	1.60		0.45	1.03		
52.0	0.70	1.49		0.60	1.84		
54.0	0.60	1.44		0.62	1.86		
56.0	0.60	1.20		0.60	1.89		
58.0	0.40	1.03		0.80	2.53		
59.6	0.0	0.0		0.68	1.67		

24	S. File Sprague	d/s	BRUNNEN	TR-1	06/14/07	25
STA	Depth	Vel	Comments	Cascade	TR-2	06/14/07
RWP 8.6	∅	∅	RWP 1.0			Cascade Sta's
10.5	0.30	0.31	Front of Bldr	∅	u/s Boulder Cover	
12.0	0.55	0.13		0.30		
14.0	0.50	1.11		0.25		
15.5	0.60	0.55		0.40		
17.0	0.75	0.32	u/s velocity break	0.45		
18.5	0.90	1.64		0.50	u/s Boulder Cover	
20.0	1.10	2.03		0.50	est velocity	
21.5	1.00	0.49	u/s velocity break	0.50	edge of Bldr	
23.0	0.82	1.63		1.35		
24.5	0.90	0.36	u/s velocity cover	1.00	Top of Bldr	
26.0	0.90	1.08	u/s velocity cover	1.00	Side of Bldr	
27.5	0.82	2.41	u/s of cobble	1.10		
29.0	1.15	1.23/2.34		0.60	0.5 of Bldr (10.5 velocity)	
31.5	0.70	0.98/2.51		1.40	0.5 of Bldr (10.5 velocity)	
33.0	1.25	1.91		1.60	edge of Bldr	
35	1.27	2.26		1.70		
35.0	1.18	2.22		0.90	Top of Bldr	
36.5	0.97	0.87		1.40		
38.0	1.10	1.31		1.60		
39.5	0.87	1.14		1.00	Top of Bldr	
40.0	0.35	0.10	Est velocity	0.80		
40.9	∅	∅		0.10	Top of Bldr	
45.4	∅	∅		0.25	Top of Bldr	

S. Fk Sprague R

d/s of Brownsworth

9/28/07

In Dist
Time 10:00 1:30
S.B. -1.5 -1.5

Crew: M. Gerner
C. Huang

Equipment: Level Nikon SW

Survey 4947
page 1 of 1
Cal. 0186

Comments:

9/29/07

RIIY Unit
Level Loop

STA BS HI FS Elevation

BM 5.34 105.34 100.00

TR-1 6.61 98.73

TR-3 6.35 98.99

TR-3 6.14 98.99

TR-1 105.13 98.73

BM 5.13 100.00

30		9/28/07		31	
R. No	TR-1	Bank Profile	TR-1	DEV	9/28/07
STA	FS	FS	Depth	Down	Sub
HP	HI	FS	Vel	Down	%
TR-1 HP 4.86	103.59		0.0	silt	Bed
RWP=1.0	7.38		0.0	silt	Bed
7.0	8.17	veg/silt	0.10	sm gr	lg gr
13.0	8.62	"	0.08	sm gr	cobb
19.0	9.05	"	0.16	cobb	sm gr
21.2	9.70	veg/silt	1.19	cobb	lg gr
21.5 RWE	10.04	silt/veg	1.15	lg gr	bl
RWS (24)	10.53	93.53	1.29	blt	lg gr
MWY (69)	10.37	0.32	1.28	lg gr	cob
LWS (57)	10.56	0.46	0.63	"	"
62.87 LWE	10.08		0.20	"	"
63.0	9.45	silt/veg	0.40	"	"
68.0	8.66	veg/silt	0.50	"	"
71.0	8.25	veg/ll	0.43	"	"
DW=72.5	7.09	"	0.40	"	"
LW=73.2	6.98	"	0.50	"	"
			0.45	cobb	sand
			0.37	cobb	sand
			0.22	sand	cobb
			0.40	"	"
			0.52	"	"
			0.56	sm gr	cobb
			0.32	silt	sm gr
			0.0	silt	veg
			LWE=62.7		

32	Riffle	TR-2	Bank Profile	9/27/07	TR-2	TR-2	9/27/07	33
STA	BS	HJ	FS	Eleo/Rod	Subst	R.164	Sub	% Conn
BMA	2.25	102.25		100.00		depth	sm gr	
+7.0			4.92		veg/silt	0.0	silt	70
RWF=1.0			5.50		"	0.15	"	70
3.0			6.08		"	0.50	silt	60
5.0			6.50		"	0.75	cobb	60
5.30			8.10		silt/LWD	0.90	"	70
RWF=8.2			8.55		"	1.27	silt	60
					"	0.90	sm gr	80
					"	1.27	silt	60
					"	0.60	blt	70
					"	0.99	cobb	60
					"	0.46	"	"
					"	0.36	blt	70
					"	0.40	cobb	60
					"	0.40	"	"
					"	0.0	"	"
					"	0.90	lg gr	60
					"	0.95	"	"
					"	1.16	lg gr	70
					"	0.88	"	70
					"	0.13	"	70
					"	0.0	lg gr	"
					"	0.30	"	"
					"	0.0	sm gr	80
					"	0.0	veg	

