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In re Klamath River (Klamath Tribe)

Hedden-Nicely

12-4-2009

Ex. 281-US-422

Mike Gagner
R2 Resource Consultants

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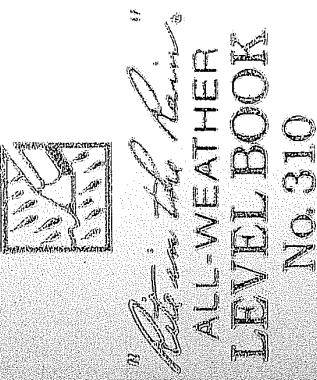
WD-3

193

May 15, 2004

Sampling

1442.01



W# - 3 Crooksh Cr.

05/15/04

	In	Out	
Time	9:00	1:00	
\$	6	6.69	1.69
			5.00

Crew: M. Gagné
A. Weybright

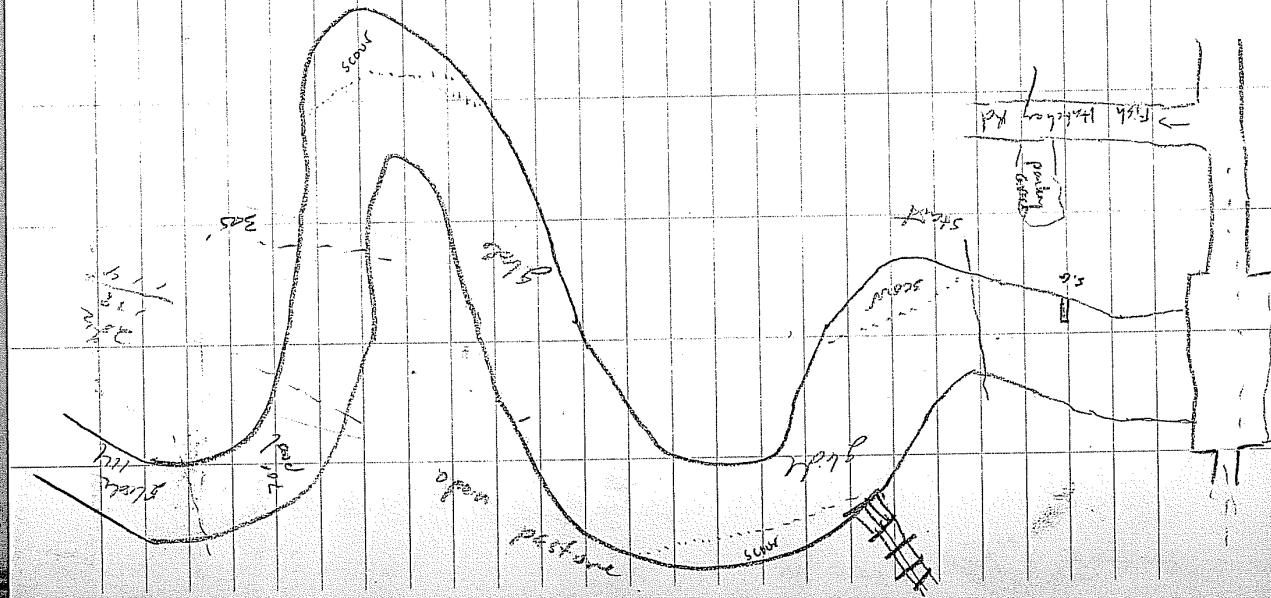
Equipment: sufficiency 3602 prop. 1B
cal. 0130

Directions: From K. Falls head north
on Hwy 97 toward Chilcotin. After ~ 20
miles you will cross over the Williamson River.
R. ~ 1/4 mile after crossing Williamson look
for left hand turn onto Hwy 62 and follow
for ~ 3/4 miles to Wood R. crossing. Turn
right on Fish Hatchery Rd just before crossing Wood
R. Look at turn out on W side of bridge. First
trunk is located 100' N of bridge crossing.

WD - 3
Cronkend Park Waterfall Survey 05/15/04

Unit # Type Long. X width Notes

- * stream gradient is very flat ($< 5\%$ slope) the habitat is glide with poorly defined scour holes along outside edge of meander borders
- * hand placed transects to capture small amount of variability



W-3 Unit 10
Lid.

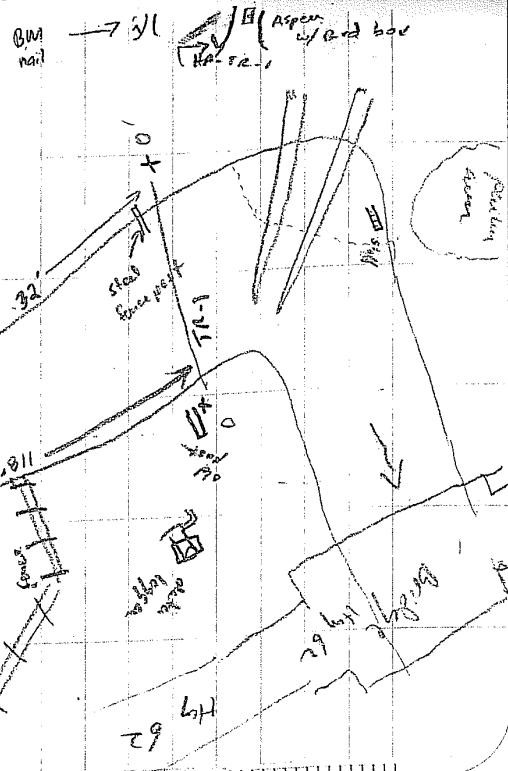
WV-3 Photo copy

Photo

Description

1	# A6	Looking up 1/3 from shank					
2	# B6	" 1/3 from 300 1/3 of shank					
3	# H6	" 1/3 from 450 "					
4	# G6	Isolating L → R across TR-1					
5	# F6	" R → L " TR-1					
6	# E6	" L → R " TR-2					
7	# D6	" R → L " TR-2					
8	# C6	L → R TR-3					
9	# B6	R → L TR-3					
10	# A6	Looking up 1/3 from shank					

only 2 WPs (TR-1 & TR-3)
rebar



W0-3 TR-1 Div 05/15/64

STA Depth Vol. Notes

float = 1.0

STA	Depth	Vol.	Notes
14.0	0.0	0.0	
15.0	3.70	10.38	
16.0	2.90	15.68	
17.0	3.05	8.26	
18.0	3.15	7.061	
19.0	3.00	7.279	
20.0	2.45	7.283	
21.0	2.95	7.267	
22	2.10	6.970	
23	2.75	6.876	
24	2.65	7.973	
25	2.45	7.76	
26.5	2.10	7.8	
28.0	1.95	7.7	
29.5	1.90	7.0	
31.0	1.75	6.2	
32.5	1.60	6.5	
34.0	1.45	6.1	
35.5	1.35	5.6	
37.0	1.40	4.6	
38.5	1.55	3.0	

W0-3 TR-1 A & V contin.

STA Depth Vol. Notes

40.0 1.7 .60

41.5 1.35 .85 est.

LWE 42.0 0.0 0.0
LWP = 61.1

* Surface Unit 3602 (1B)
changed from 2' to 3' unit
adjusted unit calibration to 0130

WB-3 TR-2 Dic V 05/15/14

05/15/04

W0-3 TR-2 continue 5/19/04

W10 - 3 TR - 2 continue

STA	Depth	Vel.	Notes
RNE=19.2	0.0	0.0	vq
19.7	0.35	0.0	vq
20.1	out. 10		honic
20.6	0.0	0.0	vq
21.0	.60	0.0	vq
22.5	.80	0.17	
24.0	1.1	0.40	s. v. 2-4' move/bottom
25.5	1.35	0.48	bottom
27.0	1.25	0.41	1.1
28.5	1.20	0.48	1.1
30.0	1.20	0.54	1-2' mud
31.5	1.30	0.59	"
33.0	1.45	0.63	"
34.5	1.55	0.58	
36.0	1.80	0.60	
37.5	2.0	0.65	
39.0	2.3	0.73	
40.5	2.55	0.75	0.61
42.0	2.75	0.76	0.65
43.5	2.85	0.76	0.63
45.0	3.10	0.80	0.71

W0-3 TR-2 condition 05/09/04

W10 - 3 TR - 2 continue

WD-3 TR-3 Glade Div
STA Depth Vol Notes

Bottom 1.0'

WD-3

14.0	0.05	0.0
15.0	0.1	0.0
16.0	0.3	0.0
17.0	0.5	0.0
18.0	1.0	0.05
19.0	1.05	0.34
20.0	1.00	0.56
21.5	1.26	0.76
23.0	1.95	0.90
24.3	1.75	0.91
26.0	2.2	0.24
27.5	2.5	0.65 / 0.92
29.0	2.65	0.83 / 0.65
30.5	3.10	0.80
32.0	3.55	0.71 / 0.48 Piece of land on bottom
33.5	3.70	0.63 / 0.10 " land on bottom; deepest part of
35.0	3.60	0.66 / 0.16 land on bottom
36.5	3.30	0.58 / 0.19
38.0	3.20	0.61 / 0.24
39.0	2.80	0.61 / 0.25
41.0	2.35	0.45
42.5	2.20	0.54
44.0	1.75	0.32 WD = 41.5 Unrest + 0.6' 44.5
45.5	1.30	0.28 WD = 45.7 D = 0.7 V = 0.11

WD-3



"Life in the Rain"
ALL-WEATHER
LEVEL BOOK
No. 310

June 27, 2004

Survey

MEASUREMENT CONVERSIONS

IF YOU KNOW INCH	MULTIPLY BY	TO FIND CM
LENGTH:		
1 inches	2.540	centimeters
feet	.30480	centimeters
miles	0.914	meters
millimeters	1.609	kilometers
centimeters	0.039	inches
meters	3.280	feet
meters	1.093	yards
kilometers	0.621	miles
WEIGHT:		
ounces	28.350	grams
pounds	0.453	kilograms
grams	0.035	ounces
kilograms	2.804	pounds
VOLUME:		
fluid ounces	28.573	milliliters
pints	0.473	liters
quarts	0.946	liters
gallons (U.S.)	3.785	liters
milliliters	0.033	fluid ounces
liters	1.056	quarts
liters	0.284	gallons (U.S.)
TEMPERATURE:		
$^{\circ}\text{C} = (\text{F} - 32) \times .555$		
$^{\circ}\text{F} = (\text{C} \times 1.8) + 32$		
TIME:		
inches	Decades	Millennia
1/16	.005	1.667
1/8	.014	3.1750
3/16	.0155	4.7625
1/4	.0208	6.3500
5/16	.0250	7.9350
3/8	.0313	9.5250
1/2	.0417	12.700
5/8	.0521	15.875
3/4	.0625	19.050
7/8	.0729	22.225
11		
12		
13		
14		
15		
16		



Name Mike Gagnier
 RA Resource Consultants
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 Redmond WA 98052
 Phone 425/555-1234
 Project 1442.01 PHASE III Alpha

"Rite in the Rain" - a unique all-weather writing surface created to shed water and to enhance the written image. Makes it possible to write sharp, legible field data in any kind of weather.

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J.L. DAWLING CORPORATION
 TACOMA, WA 98424-1017 USA
www.riteinttherain.com

WD 3 CROOKED

6/27/04

IN	OUT
TIME 8:15am	1.58
S.G. 12:15pm	1.58

Crew: C. Yoder A. Weybright

nice sunny day, no clouds

Equipment Swattek #53350 Prop 2B
cal = 123

TYPE	TR	RWP	LWP	RWE	LWE
Glide	1	1.0	61.1	14.0	41.8
Glide	2	1.0	64.3	19.5	53.8
Glide	3	1.0	49.5	16.0	96.7

PHOTO LOG CY #4

- ⑤ WD3 Glide TR1 LB to RB
- ⑥ WD3 Glide TR2 downstream
- ③ WD3 Glide TR1 upstream
- ② WD3 Glide TR1 RB to LB
- ① WD3 Glide TR2 LB to RB

CY #5

- ⑦ WD3 Glide TR2 RB to LB
- ⑧ WD3 Glide TR2 upstream
- ⑨ WD3 Glide TR2 downstream
- ⑩ WD3 Glide TR3 RB to LB
- ⑪ WD3 Glide TR3 upstream
- ⑫ WD3 Glide TR3 downstream
- ⑬ WD3 Glide TR3
- ⑭ WD3 Glide TR3 upstream
- ⑮ WD3 Glide TR3 downstream
- ⑯ WD3 Glide TR2 RB to RB
- ⑰ WD3 ~~Glide~~ Staff Gage
- ⑲

LEVEL LOOP SURVEY 6/27/09

STA	BS	HT	FS	ELV	R010	STA	BS	HT	FS	ELV	R010
3.56	103.56			100.00							
BM	3.74	103.74				upstream ~70' from R3	6.57	96.83			
TR1						upstream ~70' from R3	3.94	96.83	2.37		
TR3						upstream ~70' from R3	4.09	99.82			
(P)	3.73	103.70					4.47				
TR3	3.93	103.40					99.47				
TR1							3.58	99.82			
E14							3.40	100.00			
						downstream ~95'	7.07	96.33			
						downstream ~95'	96.37				
						downstream ~95'	10.33	96.40	3.30		
						downstream ~95'	10.39	96.37	3.36		
						downstream ~95'	7.06	96.34			

GLIDE TRAIL SURVEY						
STA	DEPTH	VEL	DOM	SUB	%	COM
14.0	0	0	Veg	Silt	80	RNE Instream cover
15.0	2.575	0.246	1/2 sand	Silt	80	
16.0	2.72	0.79	1/3 sand	gravel	80	
17.0	2.92	0.98	1/3 sand	gravel	60	
19.0	2.95	1.01	1/3 sand	gravel	70	
19.0	2.93	0.89	1/3 sand	gravel	70	
20.0	2.9	0.87	1/3 sand	gravel	80	
21.0	2.83	0.83	1/3 sand	gravel	90	
22.0	2.78	0.84	1/3 sand	gravel	90	
23.0	2.72	0.85	1/3 sand	gravel	90	
24.0	2.55	0.81	1/3 sand	gravel	90	
25.0	2.4	0.86	Sand	gravel	90	
26.5	2.28	0.85	Sand		100	
28.0	1.93	0.85	Sand		100	
29.5	1.9	0.81	Sand		100	
31.0	1.75	0.75	Sand		100	
32.5	1.58	0.7	Sand	Silt	70	
34.0	1.47	0.65	Sand	Silt	60	
34.5	1.4	0.68	Sand	Silt	60	
37.0	1.45	0.51	Sand	Silt	60	
38.5	1.55	0.06	Sand	Silt	60	
40.0	1.62	0.25	Sand	Silt	60	
41.5	0.98	-0.03	Veg	Silt	60	LWE
41.8	0	0	Veg	Silt	80	LWP
61.6						

*EST.

4' off shore

TR2 CROSS SECTIONAL PROFILE

STA	BS	HT	FS	EW	WD	Dom	SUB	%	COMMENTS
-11'	103.4	5.73	97.62			Veg	Sand	90	RWP-BL!
1.0		5.93	97.47			Veg	Sand	90	RWP
6.0	6.18		97.28			Veg	Sand	90	
11.0		6.27	97.13			Veg	Silt	80	
16.0		6.47	96.93			Veg	Silt	80	
19.0		6.36	97.04			Veg	Silt	70	RWE
19.5		6.59	96.81			Veg	Silt	60	RWSL
		6.60	96.80						LWSE
		6.59	96.81						LWE
53.8		6.60	96.80			Silt	Veg	60	
54.5		6.38	97.02			Veg	Silt	80	
59.0		6.07	97.33			Veg	Silt	90	LWRP
64.3		5.96	97.44			Veg	Silt	90	
94.3		6.03	97.38			Veg	Silt	30'	LWRP + 30'

6/27/04

GUIDE TIE 2

6/27/04

STA	DEPTH	VEL	DOM	SUB	SH. COM	STA	DEPTH	VEL	DOM	SUB	SH. COM
1.0						RWP	48.0	3.2	0.83 / 0.83	Sand	80
19.5	0	0	0	silt	veg	49.0	3.07	0.92 / 0.41	Sand	gravel	80
19.7	0.2	0	0	silt	veg	50.0	2.75	0.71 / 0.04	Sand	gravel	80
20.1	0	0	0	silt	0.1' humic veg	51.0	2.8	-0.03 / 0.07	Sand	silt	80 ↑ Intrusive overburden
20.6	0	0	0	silt	veg	51.7	3.85	0/0	Sand	silt	80 ↓
21.0	0.57	0	*	silt	veg	52.0	1.2	0	Silt	veg	60
22.5	0.73	0.05	*	silt	sand	53.0	0.6	0	Silt	soft	60
24.0	0.95	0.01	*	silt	sand	53.8	0	0	Silt	veg	60 LWE
25.5	1.2	0.47	*	silt	sand	64.3					LWE
27.0	1.32	0.62	*	silt	sand	70					
28.5	1.2	0.61	silt	sand	70						
30.0	1.2	0.78	silt	sand	70						
31.5	1.23	0.63	silt	sand	70						
33.0	1.4	0.65	silt	sand	60						
34.5	1.47	0.70	silt	sand	60						
36.0	1.65	0.71	sand	silt	60						
37.5	1.9	0.77	sand	silt	60						
39.0	2.2	0.81	sand	silt	60						
40.5	2.47	0.88	silt	sand	60						
42.0	2.7	0.79	0.995 silt	sand	60						
43.5	2.72	0.76	0.83 silt	sand	60						
45.0	2.97	0.85	0.85 sand	silt	60						
46.5	3.15	0.9	0.85 sand	silt	60						

6/27/04

STA	DEPTH	VEL	DOM	SUB	SH. COM
1.0					
19.5	0	0	silt	veg	
19.7	0.2	0	silt	veg	
20.1	0	0	silt	0.1' humic veg	
20.6	0	0	silt	veg	
21.0	0.57	0	silt	veg	
22.5	0.73	0.05	*	silt	
24.0	0.95	0.01	*	silt	
25.5	1.2	0.47	*	silt	
27.0	1.32	0.62	*	silt	
28.5	1.2	0.61	silt	sand	
30.0	1.2	0.78	silt	sand	
31.5	1.23	0.63	silt	sand	
33.0	1.4	0.65	silt	sand	
34.5	1.47	0.70	silt	sand	
36.0	1.65	0.71	sand	silt	
37.5	1.9	0.77	sand	silt	
39.0	2.2	0.81	sand	silt	
40.5	2.47	0.88	silt	sand	
42.0	2.7	0.79	0.995 silt	sand	
43.5	2.72	0.76	0.83 silt	sand	
45.0	2.97	0.85	0.85 sand	silt	
46.5	3.15	0.9	0.85 sand	silt	

GLIDE TR 3

DISCHARGE SURVEY

6/27/01

STA	DEPTH	VEL	DONL	SUB	%	CORR
-----	-------	-----	------	-----	---	------

						R.W.P.
1.0	16.0	0	0	silt	veg	60 R.W.E Instrument 70 on water
	17.0	0.4	0	silt	veg	
	18.0	0.67	0.03	silt	sand	90 BH cover
	19.0	0.92	0.18	silt	sand	90
	20.0	0.92	0.42	silt	sand	70
	21.5	1.08	0.72	silt	silt	70
	23.0	1. 32	0.9	sand	silt	90
4	24.5	1.63	0.86	sand	silt	90
	26.0	2.08	0.71	sand	silt	80
	27.5	2.4	0.8	sand	silt	90
	29.0	2.57	0.42/0.38	sand	silt	90
	30.5	3.2	0.38/0.32	sand	silt	90
	32.0	3.48	0.3 / 0.34	sand	gravel	in front of log 1/2 90 to 90+ 25% in stream cover
	33.5	3.65	0.1 / 0.83	sand	gravel	
	35.0	3.42	0.31 / 0.69	sand	silt	90
	36.5	3.42	0.33 / 0.80	sand	silt	70
	38.0	3.17	0.27 / 0.74	sand	silt	60
39.0	36 2.75	.39 / .082	sand	silt	80	
	41.0	2.35	0.48	sand	silt	80
	42.5	2.12	0.54	sand	gravel	90
	44.0	1.73	0.22	sand	gravel	90
	45.5	1.25	0.1	sand	bedrock	60
	46.7	0.6	-0.05	very	sand	90 at 46.7 height of undercut 0.6 water = 0.71
	46.1	0	0			

WD-3



"Photo in the Rain"
ALL-WEATHER
LEVEL BOOK
No. 310

Aug. 19 - 2004

Survey

WD-3 Crotched Cr. \$118.04

WD-3 Cracked CK. 8/19/04
Level Loop *

	IN	OUT
TIME	8:30	11:00
SG	1.63	1.62

Sun, clear ~ 80°F High

Crew: Glen Anderson
Adam Weybright

Equip: Swoffer 5750
Prop: 2B

—
9

103.62	103.62	103.62
103.62	103.62	103.62
3.79	3.79	3.79
4.15	4.15	4.15

99.47	9.22	103.69	6.87	<u>109.82</u>
-------	------	--------	------	---------------

* No TR 2 HP - ground tec soft.

Crooked Ck.
Photo Log (Disposable Cam)
#2

Crooked Ck. 8/19/04
CROOKED Ck. 8/19/04

	TR1	U/S	TR1	Glide	Comments
STA	D	Y			
27	TR1	U/S	14.1	-	RWF
26	TR1	L-E	15	2.62	0.16 / 0.31
25	TR3	R-L	16	2.80	0.71 / 0.89
24	TR2	R-L	17	3.00	0.79 / 0.89
			18	3.00	0.85 / 0.87
			19	3.00	0.77 / 0.87
			20	2.95	0.81 / 0.82
			21	2.88	0.78 / 0.84
			22	2.82	0.82 / 0.81
			23	2.82	0.78 / 0.75
			24	2.65	0.84 / 0.70
			25	2.47	0.83
			26.5	2.12	0.85
			28	1.94	0.80
			29.5	1.90	0.83
			31	1.77	0.76
			32.5	1.62	0.71
			34	1.47	0.58
			35.5	1.45	0.21
			37	1.55	0.42
			38.5	1.65	0.25
			40	1.70	0.01
			41.5	0.88	LWE
			41.8	-	LWP
			41.9	-	

WD-3

TR 2

Glide

8/19/04

STA

D

V

Comments

RWP

RWE

(wet edges off)

grass Island

WD-3

GRASS

ISLAND

WD-3

GRASS

ISLAND

WD-3

GRASS

ISLAND

WD-3

GRASS

ISLAND

WD-3

GRASS

ISLAND

WD-3

GRASS

ISLAND

WD-3

GRASS

ISLAND

WD-3

GRASS

ISLAND

GRASS ISLAND (0.1' out)

19.8 - 20.7

WD-3 (cont.) 8/19/04

Comments

WD-3

Comments

WD-3 TR 3 Glide

STA	D	U	Comments
1.0	0	0	RWP
15.8	0.05	0	RWP
16	0.4	0	
17	0.42	0.03	
19	0.93	*	
20			
21.5		Q9it	
23	Meter		
24.5	Meter	King	X
26	W55	most	
27.5	W55	almost	
29	jet.	some	X
30.5	the	one	of jet.
32	jet	other	
			The others
			get b.
			up