11-5-2008

Ex. 280-US-484

Unknown

Stream: Sprague River
Site: 647
Date: 4/10/2004
Habitat: Run **Flow:** High

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	4.08	104.08		100.00
BM-2			0.51	103.57
TR1 WP			0.46	103.62
TR1 WP	0.75	104.37	0.79	
BM-2			0.79	103.58
BM			4.37	100.00

Comment: No HP's placed, Use BM elev's

(2) Water Surface Elevation (WSE) Survey

TR	Station L/R bank (ft)	Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	104.37	8.23	0.90	97.04	97.11	520.3
1-R	0		104.37	8.30	1.10	97.17		
2-L	86	66	104.37	8.09	0.80	97.08	97.06	
2-R	46		104.37	7.90	0.57	97.04		
3-L	174	147	104.37	7.85	0.59	97.11	97.11	
3-R	119		104.37	7.83	0.56	97.10		
							Ave Q=	520.3

Note: 4 transects set in field, Only entered first 3 in spreadsheet.
WSE slope = 0.000%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 0068
Propeller ID: NA

Date: 6/27/2004
Habitat: Run **Flow:** Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM-2	1.87	105.44		103.57
WP1			1.83	103.61
WP1	1.69	105.30		
BM 2			1.74	103.56
BM 2	1.66	105.22		103.56
WP1			1.61	103.61
WP3			3.78	101.44

Comment: BM 1 had moved, using BM 2 elev.
Use BM = 103.57

(2) Water Surface Elevation (WSE) Survey

TR	Station L/R bank (ft)	Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	105.22	12.09	1.20	94.33	94.34	82.2
1-R	0			10.88	0.00	94.34		
2-L	86	66	105.22	12.60	1.81	94.43	94.44	84.3
2-R	46			11.02	0.24	94.44		
3-L	174	147	105.22	10.90	0.21	94.53	94.52	84.3
3-R	119			11.36	0.64	94.50		
							Ave Q=	83.6

Note:
WSE slope = 0.123%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 0068
Propeller ID: NA

Date: 8/17/2004
Habitat: Run **Flow:** Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM2	1.22	104.79		103.57
WP1			1.17	103.62
WP1	1.09	104.71		
BM2			1.13	103.58
BM1			4.74	99.97
WP3			3.43	101.28

Comment: Use BM2 elevation, not BM 1.
Bed elevations seem to work

(2) Water Surface Elevation (WSE) Survey

TR	Station L/R bank (ft)	Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	104.71	10.70	0.00	94.01	94.01	45
1-R	0			10.71	0.00	94.00		
2-L	86	66	104.71	10.69	0.00	94.02	94.02	50.4
2-R	46			10.69	0.00	94.02		
3-L	174	147	104.71	10.66	0.00	94.05	94.06	48.1
3-R	119			10.65	0.00	94.06		
							Ave Q=	48.0

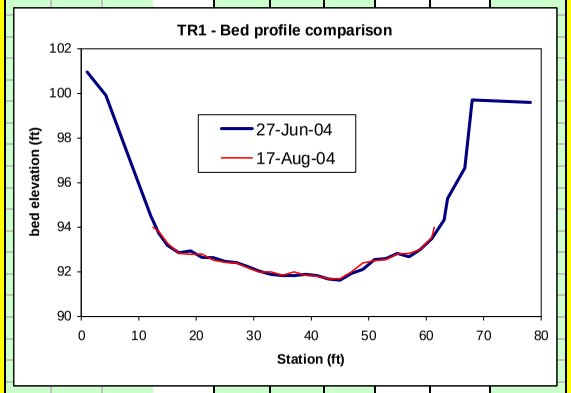
Note: TR4 LWSE FS=10.65; RWSE FS=10.64
WSE slope = 0.034%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 0068
Propeller ID: NA

Stream:	Sprague River		10-Apr-04									27-Jun-04									17-Aug-04									
Site:	647			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q	
Transect:	1			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate
Habitat:	Run												LWP	1.0	4.25	100.97						1.1									
														4.3	5.30	99.92						1.1									
Survey	HI	Q												7.8	7.77	97.45						1.7									
Date	(ft)	(cfs)											LWE	12.1	10.72	94.50	0.00	0.00		0.00	0.00	6.7	LWE	12.5		94.01	0.00	0.00		0.00	0.00	
4/10/2004	104.37	520.3												13.5		93.74	0.60	0.16		0.23	0.20	7.6		13.5		93.81	0.20	0.00		0.01	0.00	
6/27/2004	105.22	82.2	RWE	11.0		97.11	0.00	0.00		0.00	0.00			15.0		93.19	1.15	0.21		0.29	0.58	7.6		15.0		93.29	0.72	0.06		0.09	0.12	
8/17/2004	104.71	45.4		14.0		95.31	1.80	-0.19		-0.27	-1.43			17.0		92.87	1.47	0.03		0.05	0.14	6.7		17.0		92.83	1.18	-0.05		-0.08	-0.18	
				17.0		95.16	1.95	-0.14		-0.21	-1.21			19.0		92.94	1.40	0.67		0.79	2.22	5.4		19.0		92.79	1.22	0.34		0.43	1.05	
				20.0		94.21	2.90	0.40	-0.05	0.21	1.82			21.0		92.66	1.68	0.62		0.74	2.48	5.4		21.0		92.81	1.20	0.37		0.46	1.11	
				23.0		93.46	3.65	0.39	0.64	0.62	6.82			23.0		92.64	1.70	0.78		0.92	3.12	5.6		23.0		92.53	1.48	0.58		0.69	2.05	
				26.0		90.91	6.20	1.13	0.98	1.23	22.82			25.0		92.47	1.87	0.82		0.96	3.60	5.6		25.0		92.44	1.57	0.46		0.56	1.76	
				29.0		90.71	6.40	1.64	1.41	1.76	33.88			27.0		92.42	1.92	0.86		1.01	3.86	5.4		27.0		92.41	1.60	0.51		0.61	1.96	
				32.0		90.91	6.20	1.80	1.94	2.16	40.10			29.0		92.24	2.10	0.87		1.02	4.27	6.5		29.0		92.19	1.82	0.51		0.61	2.23	
				35.0		91.36	5.75	1.49	2.32	2.20	37.89			31.0		92.04	2.30	0.81		0.95	4.37	5.4		31.0		91.99	2.02	0.27		0.35	1.43	
				38.0		92.21	4.90	2.19	0.47	1.54	22.71			33.0		91.89	2.45	0.86		1.01	4.92	5.4		33.0		92.01	2.00	0.61		0.73	2.91	
				41.0		91.91	5.20	2.01	2.18	2.41	37.60			35.0		91.84	2.50	1.12	0.66	1.04	5.21	5.4		35.0		91.85	2.16	0.51		0.61	2.64	
				44.0		91.81	5.30	2.42	1.45	2.23	35.47			37.0		91.84	2.50	0.66	1.13	1.05	5.24	5.4		37.0		92.01	2.00	0.59		0.70	2.81	
				47.0		91.91	5.20	2.36	2.63	2.87	44.76			39.0		91.89	2.45	0.92		1.07	5.25	5.4		39.0		91.85	2.16	0.58		0.69	2.99	
				50.0		92.11	5.00	2.53	2.25	2.75	41.23			41.0		91.84	2.50	0.90	1.06	1.14	5.70	5.6		41.0		91.81	2.20	0.65		0.77	3.40	
				53.0		91.51	5.60	2.40	1.83	2.44	40.91			43.0		91.69	2.65	1.07	0.85	1.12	5.93	4.3		43.0		91.71	2.30	0.65		0.77	3.55	
				56.0		91.61	5.50	2.02	1.69	2.14	35.29			45.0		91.64	2.70	0.71	0.99	1.00	5.38	3.4		45.0		91.71	2.30	0.63		0.75	3.45	
				59.0		91.51	5.60	1.54	2.09	2.09	35.16			47.0		91.94	2.40	0.91		1.06	5.09	3.2		47.0		92.01	2.00	0.68		0.81	3.22	
				62.0		91.41	5.70	1.78	1.01	1.61	27.61			49.0		92.12	2.22	0.84		0.98	4.37	3.2		49.0		92.41	1.60	0.70		0.83	2.65	
				65.0		91.91	5.20	1.89	0.85	1.59	24.75			51.0		92.56	1.78	0.31		0.40	1.41	3.2		51.0		92.51	1.50	0.60		0.72	2.15	
				68.0		92.71	4.40	1.57	0.97	1.47	19.44			53.0		92.60	1.74	0.80		0.94	3.27	3.2		53.0		92.56	1.45	0.55		0.66	1.91	
				71.0		93.51	3.60	0.50	1.49	1.16	12.56			55.0		92.84	1.50	0.76		0.89	2.68	3.2		55.0		92.81	1.20	0.45		0.55	1.32	
				74.0		95.29	1.82	0.40		0.50	2.26			57.0		92.69	1.65	0.46		0.56	1.85	3.2		57.0		92.83	1.18	0.23		0.31	0.74	
				76.0		96.29	0.82	-0.06		-0.09	-0.15			59.0		93.02	1.32	0.26		0.34	0.91	2.3		59.0		93.01	1.00	0.05		0.08	0.16	
			LWE	77.8		97.11	0.00	0.00		0.00	0.00			61.0		93.50	0.84	0.05		0.08	0.13	2.1		61.0		93.56	0.45	-0.02		-0.03	-0.02	
													RWE	63.1	10.88	94.34	0.00	0.00		0.00	0.00	2.1	RWE	61.4		94.01	0.00	0.00		0.00	0.00	
														63.7	9.93	95.29						1.1									
														66.7	8.57	96.65						1.1									
														68.0	5.51	99.71						1.1									
													RWP	78.1	5.62	99.60						1.1									

DISCHARGE TRANSECT
ONLY FOR Q CALC
NOT TR1



Ex. 280-US-484
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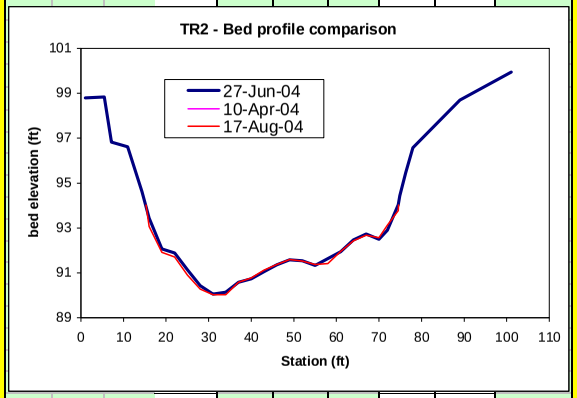
Stream:	Sprague River	
Site:	647	
Transect:	2	
Habitat:	Run	

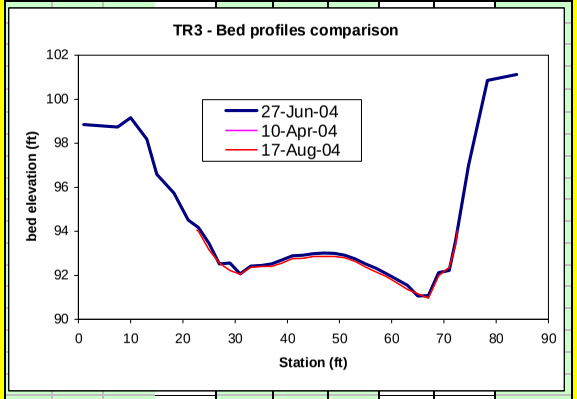
Survey Date	HI (ft)	Q (cfs)
4/10/2004	104.37	
6/27/2004	105.22	84.3
8/17/2004	104.71	50.4



	10-Apr-04										27-Jun-04										17-Aug-04									
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate		Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate		Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate
										LWP	1.0	6.43	98.79						1.3										
											5.5	6.38	98.84						1.3										
											7.2	8.40	96.82						1.3										
											11.0	8.60	96.62						1.3										
										LWE	14.3	10.60	94.62	0.00	0.00		0.00	0.00	1.2	LWE	15.3		94.02	0.00	0.00		0.00	0.00	
											16.0		93.44	1.00	0.00		0.01	0.00	2.1		16.0		93.07	0.95	0.02		0.03	0.05	
											19.0		92.07	2.37	-0.06		-0.09	-0.67	2.3		19.0		91.92	2.10	-0.09		-0.14	-0.88	
											22.0		91.89	2.55	-0.08	-0.08	-0.12	-0.95	2.3		22.0		91.70	2.32	-0.09		-0.14	-0.98	
											25.0		91.14	3.30	-0.10	-0.05	-0.12	-1.16	2.3		25.0		90.90	3.12	-0.01	-0.01	-0.02	-0.15	
											28.0		90.44	4.00	-0.02	-0.06	-0.06	-0.75	2.7		28.0		90.27	3.75	-0.04	-0.03	-0.05	-0.61	
											31.0		90.06	4.38	0.05	-0.02	0.02	0.31	6.2		31.0		90.02	4.00	0.00	-0.08	-0.06	-0.75	
											34.0		90.14	4.30	0.05	0.04	0.07	0.91	3.2		34.0		90.02	4.00	0.02	0.20	0.15	1.85	
											37.0		90.59	3.85	0.07	0.15	0.16	1.90	3.2		37.0		90.58	3.44	0.37	0.23	0.39	4.00	
											40.0		90.74	3.70	0.77	0.65	0.84	9.31	3.2		40.0		90.77	3.25	0.58	0.24	0.51	4.95	
											43.0		91.06	3.38	0.72	1.09	1.06	10.73	3.2		43.0		91.12	2.90	0.71	0.68	0.82	7.15	
											46.0		91.36	3.08	0.83	1.02	1.08	9.97	3.2		46.0		91.37	2.65	0.74	0.74	0.87	6.93	
											49.0		91.58	2.86	1.03	0.81	1.07	9.22	3.2		49.0		91.59	2.43	0.62		0.74	5.38	
											52.0		91.54	2.90	0.75	1.10	1.08	9.40	3.2		52.0		91.52	2.50	0.66	0.49	0.69	5.15	
											55.0		91.34	3.10	0.93	0.85	1.04	9.66	3.2		55.0		91.37	2.65	0.56	0.50	0.64	5.05	
											58.0		91.64	2.80	0.66	1.01	0.98	8.22	3.2		58.0		91.42	2.60	0.55	0.38	0.57	4.42	
											61.0		91.94	2.50	0.89	0.81	0.99	7.46	4.3		61.0		91.95	2.07	0.50		0.60	3.74	
											64.0		92.48	1.96	0.68		0.81	4.74	4.2		64.0		92.42	1.60	0.40		0.50	2.38	
											67.0		92.74	1.70	0.66		0.78	3.99	4.2		67.0		92.67	1.35	0.35		0.44	1.79	
											70.0		92.50	1.94	0.36		0.45	2.19	2.4		70.0		92.57	1.45	0.15		0.22	0.79	
											72.0		92.90	1.54	-0.03		-0.05	-0.16	2.3		72.0		93.12	0.90	0.05		0.08	0.16	
											74.5		94.04	0.40	-0.05		-0.08	-0.05	2.1		74.5		93.77	0.25	-0.05		-0.08	-0.03	
										RWE	74.9	10.78	94.44	0.00	0.00		0.00	0.00	2.1	RWE	74.6		94.02	0.00	0.00		0.00	0.00	
											76.3	9.76	95.46						1.1										
											78.0	8.65	96.57						1.1										
											89.0	6.52	98.70						1.1										
										RWP	101.1	5.28	99.94						1.1										

Stream:	Sprague River	
Site:	647	
Transect:	3	
Habitat:	Run	

Survey Date	HI (ft)	Q (cfs)
4/10/2004	104.37	
6/27/2004	105.22	84.3
8/17/2004	104.71	48.1



10-Apr-04										
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate

27-Jun-04									
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate
LWP	1.0	5.52	98.85						1.2
	7.5	6.48	98.74						1.2
	10.0	6.06	99.16						1.2
	13.1	7.03	98.19						1.2
	15.0	8.64	96.58						1.2
	18.3	9.48	95.74						2.1
LWE	21.0		94.52	0.00	0.00		0.00	0.00	2.3
	23.0		94.17	0.35	0.00		0.01	0.00	2.3
	25.0		93.46	1.06	0.01		0.02	0.03	2.3
	27.0		92.52	2.00	0.12		0.18	0.73	2.3
	29.0		92.56	1.96	0.72		0.85	3.33	3.2
	31.0		92.07	2.45	0.30		0.38	1.88	3.2
	33.0		92.42	2.10	0.68		0.81	3.38	3.2
	35.0		92.45	2.07	0.89		1.04	4.30	3.2
	37.0		92.52	2.00	0.87		1.02	4.06	3.2
	39.0		92.70	1.82	0.87		1.02	3.70	3.4
	41.0		92.89	1.63	0.94		1.09	3.57	3.4
	43.0		92.92	1.60	0.91		1.06	3.39	4.3
	45.0		92.99	1.53	1.04		1.21	3.70	4.3
	47.0		93.02	1.50	0.99		1.15	3.46	4.3
	49.0		93.00	1.52	0.94		1.09	3.33	4.3
	51.0		92.91	1.61	1.00		1.16	3.75	4.3
	53.0		92.75	1.77	0.92		1.07	3.79	4.3
	55.0		92.52	2.00	0.97		1.13	4.52	3.4
	57.0		92.32	2.20	0.98		1.14	5.02	4.3
	59.0		92.07	2.45	1.00		1.16	5.70	4.3
	61.0		91.82	2.70	0.73	0.96	0.99	5.34	4.3
	63.0		91.54	2.98	0.87	0.76	0.96	5.69	2.4
	65.0		91.07	3.45	0.18	0.87	0.63	4.38	2.4
	67.0		91.08	3.44	0.68	0.28	0.58	4.02	2.3
	69.0		92.12	2.40	0.25		0.33	1.60	2.3
	71.0		92.22	2.30	0.26		0.34	1.27	2.3
	72.2		93.54	0.98	0.34		0.43	0.40	2.3
RWE	72.9		94.52	0.00	0.00		0.00	0.00	2.3
	74.7	8.24	96.98						3.2
	78.3	4.36	100.86						1.3
RWP	83.9	4.09	101.13						1.3

17-Aug-04									
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate
LWE	22.7		94.06	0.00	0.00		0.00	0.00	
	23.0		94.01	0.05	0.00		0.01	0.00	
	25.0		93.16	0.90	0.00		0.01	0.00	
	27.0		92.56	1.50	0.03		0.05	0.14	
	29.0		92.23	1.83	0.38		0.47	1.74	
	31.0		92.06	2.00	0.34		0.43	1.72	
	33.0		92.36	1.70	0.22		0.30	1.02	
	35.0		92.41	1.65	0.67		0.79	2.62	
	37.0		92.41	1.65	0.64		0.76	2.51	
	39.0		92.56	1.50	0.71		0.84	2.52	
	41.0		92.76	1.30	0.74		0.87	2.27	
	43.0		92.78	1.28	0.73		0.86	2.20	
	45.0		92.86	1.20	0.66		0.78	1.88	
	47.0		92.86	1.20	0.73		0.86	2.07	
	49.0		92.86	1.20	0.71		0.84	2.01	
	51.0		92.80	1.26	0.69		0.82	2.06	
	53.0		92.64	1.42	0.68		0.81	2.29	
	55.0		92.38	1.68	0.66		0.78	2.63	
	57.0		92.16	1.90	0.61		0.73	2.76	
	59.0		91.94	2.12	0.62		0.74	3.13	
	61.0		91.66	2.40	0.64		0.76	3.65	
	63.0		91.36	2.70	0.65	0.43	0.65	3.51	
	65.0		91.16	2.90	0.58	0.12	0.44	2.54	
	67.0		90.96	3.10	0.49	-0.03	0.27	1.69	
	69.0		91.98	2.08	0.05		0.08	0.32	
	71.0		92.36	1.70	0.20		0.28	0.75	
	72.2		93.36	0.70	0.08		0.12	0.07	
RWE	72.6		94.06	0.00	0.00		0.00	0.00	

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        Sprague River SP_7 06/27/04
Run                          MID                                    TRANSECT 1
IOC       11000001000010001010000
QARD  30.0
QARD  48.0
QARD  60.0
QARD  80.0
QARD  83.6
QARD 100.0
QARD 110.0
QARD 120.0
QARD 130.0
QARD 140.0
QARD 150.0
QARD 160.0
QARD 170.0
QARD 180.0
QARD 190.0
QARD 200.0
QARD 220.0
QARD 240.0
QARD 260.0
QARD 280.0
QARD 300.0
QARD 325.0
QARD 350.0
QARD 375.0
QARD 400.0
QARD 425.0
QARD 450.0
QARD 475.0
QARD 500.0
QARD 520.3
XSEC   0.0      0.00 1.0     91.64   0.00123
       0.0  1.0101.0  4.3 99.9  7.8 97.5 12.1 94.5 13.5 93.7 15.0 93.2
       0.0 17.0 92.9 19.0 92.9 21.0 92.7 23.0 92.7 25.0 92.5 27.0 92.4
       0.0 29.0 92.2 31.0 92.1 33.0 91.9 35.0 91.8 37.0 91.8 39.0 91.9
       0.0 41.0 91.8 43.0 91.7 45.0 91.7 47.0 91.9 49.0 92.1 51.0 92.6
       0.0 53.0 92.6 55.0 92.8 57.0 92.7 59.0 93.0 61.0 93.5 63.1 94.3
       0.0 63.7 95.3 66.7 96.7 68.0 99.7 78.1 99.6
NS     0.0       1.1       1.1       1.7       6.7       7.6       7.6
NS     0.0 0.30  6.7       5.4       5.4       5.6       5.6       5.4
NS     0.0       6.5       5.4       5.4       5.4       5.4       5.4
NS     0.0       5.6       4.3       3.4       3.2       3.2 0.12  3.2
NS     0.0       3.2       3.2       3.2       2.3 0.2   2.1       2.1
NS     0.0       1.1       1.1       1.1       1.1
WSL    0.0     93.73     93.99     94.14     94.33     94.37     94.54
WSL    0.0     94.64     94.74     94.83     94.91     95.00     95.08
WSL    0.0     95.15     95.23     95.30     95.37     95.50     95.63
WSL    0.0     95.75     95.87     95.98     96.12     96.24     96.37
WSL    0.0     96.48     96.60     96.71     96.82     96.92     97.00
CAL1   0.0     94.33      83.6
VEL1   0.0                0.00 0.23 0.29 0.05 0.79 0.74 0.92 0.96 1.01
VEL1   0.0 1.02 0.95 1.01 1.04 1.05 1.07 1.14 1.12 1.00 1.06 0.98 0.40
VEL1   0.0 0.94 0.89 0.56 0.34 0.08 0.00
CAL2   0.0     97.04     520.3
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     94.01      48.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
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        Sprague River SP_7 06/27/04
Run                          MID                                    TRANSECT 2
IOC       1100000100001000101000
QARD  30.0
QARD  48.0
QARD  60.0
QARD  80.0
QARD  83.6
QARD 100.0
QARD 110.0
QARD 120.0
QARD 130.0
QARD 140.0
QARD 150.0
QARD 160.0
QARD 170.0
QARD 180.0
QARD 190.0
QARD 200.0
QARD 220.0
QARD 240.0
QARD 260.0
QARD 280.0
QARD 300.0
QARD 325.0
QARD 350.0
QARD 375.0
QARD 400.0
QARD 425.0
QARD 450.0
QARD 475.0
QARD 500.0
QARD 520.3
XSEC   0.0      0.00 1.0     91.64   0.00123
       0.0  1.0 98.8  5.5 98.8  7.2 96.8 11.0 96.6 14.3 94.6 16.0 93.4
       0.0 19.0 92.1 22.0 91.9 25.0 91.2 28.0 90.4 31.0 90.1 34.0 90.2
       0.0 37.0 90.6 40.0 90.7 43.0 91.1 46.0 91.4 49.0 91.6 52.0 91.6
       0.0 55.0 91.3 58.0 91.7 61.0 91.9 64.0 92.5 67.0 92.7 70.0 92.5
       0.0 72.0 92.9 74.5 94.1 74.9 94.4 76.3 95.5 78.0 96.6 89.0 98.7
       0.0101.1 99.9
NS     0.0       1.3       1.3       1.3       1.3       1.2       2.1
NS     0.0       2.3       2.3       2.3       2.7 1.0   6.2 0.8   3.2
NS     0.0 0.4   3.2       3.2       3.2       3.2       3.2       3.2
NS     0.0       3.2       3.2       4.3       4.2       4.2       2.4
NS     0.0 0.2   2.3 0.3   2.1       2.1       1.1       1.1       1.1
NS     0.0       1.1
WSL    0.0     93.75     94.02     94.17     94.37     94.40     94.58
WSL    0.0     94.68     94.78     94.87     94.96     95.04     95.13
WSL    0.0     95.20     95.28     95.35     95.42     95.56     95.69
WSL    0.0     95.82     95.93     96.05     96.18     96.32     96.44
WSL    0.0     96.56     96.68     96.79     96.90     97.01     97.09
CAL1   0.0     94.43      83.6
VEL1   0.0                    0.00 0.01-0.09-0.12-0.12-0.06 0.02 0.07
VEL1   0.0 0.16 0.84 1.06 1.08 1.07 1.08 1.04 0.98 0.99 0.81 0.78 0.45
VEL1   0.0-0.05-0.08 0.00
CAL2   0.0     97.08     520.3
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     94.02      48.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
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        Sprague River SP_7 06/27/04
Run                          MID                                    TRANSECT 3
IOC       1100000100001000101000
QARD  30.0
QARD  48.0
QARD  60.0
QARD  80.0
QARD  83.6
QARD 100.0
QARD 110.0
QARD 120.0
QARD 130.0
QARD 140.0
QARD 150.0
QARD 160.0
QARD 170.0
QARD 180.0
QARD 190.0
QARD 200.0
QARD 220.0
QARD 240.0
QARD 260.0
QARD 280.0
QARD 300.0
QARD 325.0
QARD 350.0
QARD 375.0
QARD 400.0
QARD 425.0
QARD 450.0
QARD 475.0
QARD 500.0
QARD 520.3
XSEC   0.0      0.00 1.0     91.64   0.00123
       0.0  1.0 98.8  7.5 98.7 10.0 99.2 13.1 98.2 15.0 96.6 18.3 95.7
       0.0 21.0 94.5 23.0 94.2 25.0 93.5 27.0 92.5 29.0 92.6 31.0 92.1
       0.0 33.0 92.4 35.0 92.5 37.0 92.5 39.0 92.7 41.0 92.9 43.0 92.9
       0.0 45.0 93.0 47.0 93.0 49.0 93.0 51.0 92.9 53.0 92.8 55.0 92.5
       0.0 57.0 92.3 59.0 92.1 61.0 91.8 63.0 91.6 65.0 91.1 67.0 91.1
       0.0 69.0 92.1 71.0 92.2 72.2 93.6 72.9 94.5 74.7 97.0 78.3100.9
       0.0 83.9101.1
NS     0.0       1.2       1.2       1.2       1.2       1.2       2.1
NS     0.0       2.3 0.5   2.3 0.4   2.3 0.30  2.3 0.11  3.2 0.2   3.2
NS     0.0       3.2       3.2       3.2       3.4       3.4       4.3
NS     0.0       4.3       4.3       4.3       4.3       4.3       3.4
NS     0.0       4.3       4.3       4.3       2.4       2.4       2.3
NS     0.0       2.3       2.3       2.3       2.3       3.2       1.3
NS     0.0       1.3
WSL    0.0     93.82     94.10     94.24     94.45     94.48     94.66
WSL    0.0     94.76     94.86     94.95     95.04     95.12     95.20
WSL    0.0     95.28     95.36     95.43     95.50     95.64     95.77
WSL    0.0     95.89     96.01     96.12     96.26     96.39     96.52
WSL    0.0     96.64     96.75     96.87     96.98     97.08     97.16
CAL1   0.0     94.53      83.6
VEL1   0.0                                0.00 0.01 0.02 0.18 0.85 0.38
VEL1   0.0 0.81 1.04 1.02 1.02 1.09 1.06 1.21 1.15 1.09 1.16 1.07 1.13
VEL1   0.0 1.14 1.16 0.99 0.96 0.63 0.58 0.33 0.34 0.43 0.00
VEL1   0.0
CAL2   0.0     97.11     520.3
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     94.05      48.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
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