

12-8-2009

Ex. 279-US-429

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Stream: Sycan River
 Site: SY-4 (Sycan River above Torrent Springs)

Date: 5/15/93

Habitat: Riffle

Flow: High

(1) Level Loop Survey (BM & HP)						
BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)		
BM	3.91	103.91				
HP1			4.12	99.79		
HP2			4.62	99.29		
HP3			4.38	99.53		
TP						
HP3	4.14	103.47				
HP2			4.20	99.27		
HP1			3.67	99.80		
BM			3.47	100.00		

Comment: Run & RF level loops were surveyed together. See field notes for details.

Date: 6/26/93

Habitat: Riffle

Flow: Mid

(1) Level Loop Survey						
BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)		
BM	6.45	106.45				
HP1			6.66	99.79		
HP2			7.18	99.27		
HP3			6.93	99.52		
TP						
HP3	6.91	106.43				
HP2			7.16	99.27		
HP1			6.64	99.79		
BM			6.43	100.00		

Comment:

Date: 9/14/93

Habitat: Riffle

Flow: Low

(1) Level Loop Survey						
BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)		
BM	5.26	105.26				
HP3			5.74	99.52		
HP2			6.00	99.26		
HP1			5.47	99.79		
TP						
HP1	4.83	104.62				
HP2			5.35	99.27		
HP3			5.09	99.53		
BM			4.62	100.00		

Comment:

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE	11.4	103.47	6.52	0.00	96.95	96.98	653.7
	RWE			6.46	0.00	97.01		
TR2	LWE	22.8	103.47	6.52	0.00	96.95	96.99	
	RWE			6.45	0.00	97.02		
TR3	LWE	39.9	103.47	6.50	0.00	96.97	96.99	
	RWE			6.46	0.00	97.01		
							Ave Q=	653.7

Note: WSE slope = 0.04%

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE	11.4	106.43	11.34	0.00	95.09	95.05	52.7
	RWE			11.42	0.00	95.01		
TR2	LWE	22.8	106.43	11.26	0.00	95.17	95.23	46.3
	RWE			11.15	0.00	95.28		
TR3	LWE	39.9	106.43	10.71	0.00	95.72	95.72	44.7
	RWE			10.71	0.00	95.72		
							Ave Q (Riffle)=	47.9
							Ave Q (Run)=	51.3
							Ave Q (Run & Riffle)=	49.6

Note: WSE slope = 2.35%

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE	11.4	104.62	10.45	0.00	94.17	94.17	3.3
	RWE			10.46	0.00	94.16		
TR2	LWE	22.8	104.62	9.94	0.00	94.68	94.86	4.1
	RWE			9.58	0.00	95.04		
TR3	LWE	39.9	104.62	9.42	0.00	95.20	95.25	3.1
	RWE			9.32	0.00	95.30		
							Ave Q (Riffle)=	3.5
							Ave Q (Run)=	3.0
							Ave Q (Run & Riffle)=	3.3

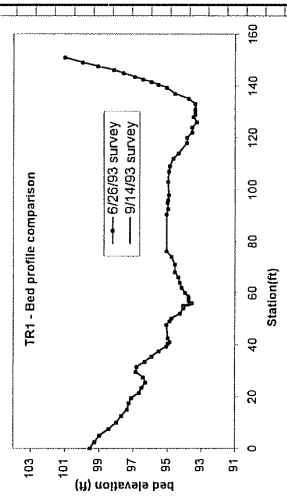
Note: WSE slope = 3.81%

Stream: Sycan River
 Site: SY-4
 Transect: 1
 Habitat: Riffle

Survey Date	HI (ft)	Q (cfs)	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)			q (cfs)	substrate
							V _{0.2,0.6}	V _{0.8}	Ave		
5/15/93	103.47	653.7	13.1			0.0	0.00	0.00	0.00	0.00	0.00
6/26/93	106.43	52.7	15.3	6.90	99.53	0.0	0.00	0.00	0.00	0.00	0.00
9/14/93	104.62	3.3	18	7.17	99.26	0.35	0.29	0.29	0.29	0.25	6.6
			23	7.46	98.97	0.50	0.29	0.29	0.54	0.54	6.6
			28	7.99	98.44	1.00	0.84	0.84	4.20	4.20	6.6
			33	8.45	97.98	0.90	1.53	1.53	6.89	6.89	6.6
			38	8.75	97.68	2.40	2.08	2.08	24.96	24.96	6.6
			43	9.08	97.35	2.90	2.25	2.22	17.91	17.91	6.6
			48	9.18	97.25	4.30	2.06	0.91	1.49	31.93	6.6
			53	9.34	97.09	5.00	1.66	1.95	1.81	45.13	6.6
			58	9.78	96.65	4.70	3.12	1.82	2.47	58.05	6.6
			63	9.93	96.30	4.50	3.05	2.34	2.70	60.64	6.6
			68	10.03	96.40	4.10	3.44	2.75	3.10	63.45	6.6
			73	9.60	96.83	3.70	3.53	2.88	3.21	59.29	6.6
			78	9.63	96.78	4.10	3.37	2.77	3.07	62.94	6.6
			83	10.10	96.33	4.30	3.05	2.43	2.74	58.91	6.6
			88	10.52	95.91	3.55	10.52	95.91	1.1	1.1	6.6
			93	10.94	95.49	2.55	3.05	2.14	2.60	26.47	6.6
			96			2.30	1.85		1.85	10.64	6.6
			98			1.75	1.16		1.16	3.08	6.6
			101			1.55	0.53		0.53	2.46	6.6
			104			1.65	0.97		0.97	4.00	6.6
			106			1.00	0.41		0.41	0.82	6.6
			108			1.10	0.00		0.00	0.00	6.6
			LWE 109.0			0.00	0.00		0.00	0.00	6.6

This is not profile. This is the Q-transsect for both Run and Riffle habitats.

Survey Date	HI (ft)	Q (cfs)	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)			q (cfs)	substrate
							V _{0.2,0.6}	V _{0.8}	Ave		
			LWP 0.0	6.90	99.53						6.6
			2.5	7.17	99.26						6.6
			5.0	7.46	98.97						6.6
			7.5	7.99	98.44						6.6
			10.0	8.45	97.98						6.6
			12.5	8.75	97.68						6.6
			15.0	9.08	97.35						6.6
			17.5	9.18	97.25						6.6
			19.5	9.34	97.09						6.6
			21.5	9.78	96.65						6.6
			23.5	9.93	96.30						6.6
			25.5	10.15	96.28						6.6
			27.5	10.03	96.40						6.6
			29.5	9.60	96.83						6.6
			31.5	9.63	96.78						6.6
			33.5	10.10	96.33						6.6
			35.5	10.52	95.91						6.6
			37.5	10.94	95.49						6.6
			LWE 39.3				95.05	0.00	0.00	0.00	6.6
			40.5				94.95	0.10	0.00	0.00	6.6
			41.0				94.85	0.20	0.00	0.00	6.6
			42.5				94.95	0.10	0.00	0.00	6.6
			LWE 47.6				95.05	0.00	0.00	0.00	6.6
			49.0				94.85	0.20	-0.01	-0.01	6.6
			50.0				94.75	0.30	0.18	0.18	6.6
			52.0				94.25	0.80	0.50	0.50	6.6
			54.0				94.05	1.00	0.86	0.86	6.6
			55.0				94.05	1.00	4.54	4.54	6.6
			56.0				93.55	1.50	4.36	4.36	6.6
			57.0				93.75	1.30	3.96	3.96	6.6
			58.0				93.75	1.30	3.38	3.38	6.6
			60.0				93.95	1.10	3.00	3.00	6.6
			62.0				94.15	0.90	0.83	0.83	6.6
			64.0				94.25	0.80	1.31	1.31	6.6
			66.0				94.35	0.70	0.30	0.30	6.6
			68.0				94.55	0.50	-0.01	-0.01	6.6
			71.0				94.55	0.50	-0.06	-0.06	6.6
			74.0				94.75	0.30	-0.02	-0.02	6.6
			RWE 76.2				95.05	0.00	0.00	0.00	6.6
			LWE 90.5				95.05	0.00	0.00	0.00	6.6
			92.5				94.95	0.10	0.15	0.15	6.6
			95.0				95.00	0.05			6.6
			96.0				94.95	0.10	0.63	0.63	6.6
			98.0				94.90	0.15	0.65	0.65	6.6
			103.0				94.95	0.10	0.85	0.85	6.6
			107.0				94.90	0.15	0.96	0.96	6.6
			109.0				94.85	0.20	0.01	0.01	6.6
			112.0				94.65	0.40	0.03	0.03	6.6
			114.0				94.35	0.70	0.02	0.02	6.6
			118.0				93.85	1.20	0.04	0.04	6.6
			120.0				93.85	1.20	0.26	0.26	6.6
			122.0				93.55	1.50	0.25	0.25	6.6
			124.0				93.55	1.50	0.87	0.87	6.6
			126.0				93.25	1.80	0.92	0.92	6.6
			128.0				93.45	1.60	0.21	0.21	6.6
			129.0				93.35	1.70	0.84	0.84	6.6
			130.0				93.35	1.70	2.72	2.72	6.6
			131.0				93.35	1.70	0.84	0.84	6.6
			133.0				93.35	1.70	-0.09	-0.09	6.6
			135.0				93.75	1.30	-0.01	-0.01	6.6
			137.0				94.55	0.50	0.05	0.05	6.6
			RWE 139.3				95.05	0.00	0.00	0.00	6.6
			140.5				10.90	95.33			6.6
			141.5				10.49	95.94			6.6
			142.5				10.00	96.43			6.6
			143.5				9.51	96.92			6.6
			145.0				8.84	97.39			6.6



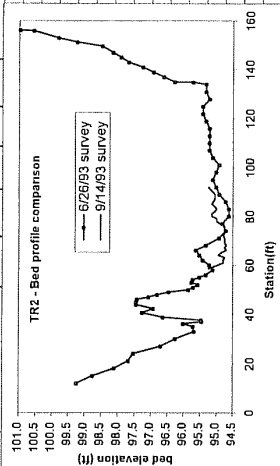
Station (ft)	6/26/93 survey (ft)	9/14/93 survey (ft)
0	98.5	98.5
20	99.5	99.5
40	100.5	100.5
60	101.5	101.5
80	102.5	102.5
100	103.0	103.0
120	102.5	102.5
140	101.5	101.5
160	99.5	99.5

Stream: Sycan River Site: SY-4 Transsect: 1	15-Mar-93						26-Jun-93						14-Sep-93											
	Sta	FS	Ground	Depth	Vel (ft/s)		q	Sta	FS	Ground	Depth	Vel (ft/s)		q	Sta	FS	Ground	Depth	Vel (ft/s)		q			
	(ft)	(ft)	(ft)	(ft)	$V_{0.2,0.6}$	$V_{0.8}$	(cfs)	(ft)	(ft)	(ft)	(ft)	$V_{0.2,0.6}$	$V_{0.8}$	Ave	(ft)	(ft)	(ft)	(ft)	$V_{0.2,0.6}$	$V_{0.8}$	Ave	(cfs)	substrate	
								146.2	8.28	98.15														
								147.6	7.35	99.08														1.1
								149.0	6.45	99.98														1.1
								RWP	151.0	5.43	101.00													1.1

Stream: Sycan River
 Site: SY-4
 Transect: 3
 Habitat: Riffle

Survey: HI Q
 Date: (ft) (cfs)
 5/15/93 103.47
 6/26/93 106.43 44.7
 9/14/93 104.62 3.1

15-May-93						26-Jun-93						14-Sep-93										
Sta	FS	Ground	Depth	Vel (ft/s)		q	Sta	FS	Ground	Depth	Vel (ft/s)		q	Sta	FS	Ground	Depth	Vel (ft/s)		q		
(ft)	(ft)	(ft)	(ft)	V _{0.206}	V _{0.8}	Ave	(ft)	(ft)	(ft)	(ft)	V _{0.206}	V _{0.8}	Ave	(ft)	(ft)	(ft)	(ft)	V _{0.206}	V _{0.8}	Ave		
						substrate															substrate	
LWP	12.0	7.19	99.24																			6.7
	13.0	7.67	98.76																			6.7
	18.0	8.32	98.11																			6.7
	21.0	8.75	97.68																			6.7
	24.0	8.91	97.32																			1.1
	27.0	9.73	96.70																			1.1
	30.0	10.18	96.25																			1.1
	33.0	10.76	95.67																			1.1
	35.0	10.72	95.71																			1.1
	36.2	10.42	96.01																			1.1
	37.1	10.98	95.45																			1.1
	37.7	10.97	95.46																			1.1
	38.9	9.80	96.63																			1.1
	40.7	9.17	97.26																			1.1
	42.3	9.50	96.93																			1.1
	44.0	8.99	97.44																			1.1
	45.0	8.99	97.44																			1.1
	46.0	9.01	97.42																			1.1
	47.0	9.36	97.07																			1.1
	48.0	9.63	96.80																			1.1
	49.0	9.98	96.45																			1.1
	50.0	10.38	95.85																			1.1
	51.0	10.72	95.71																			1.1
	52.0	10.86	95.57																			1.1
	53.0	10.68	95.75																			1.1
LWE	54.0		95.72	0.00							0.00	0.00										0.00
	55.0		95.52	0.20	-0.04						-0.04	-0.01	9.9									9.9
	56.0		95.32	0.40	0.14						0.14	0.08	9.9									9.9
	58.0		95.12	0.60	0.37						0.37	0.44	9.9									9.9
	60.0		95.22	0.50	0.12						0.12	0.12	6.6									6.6
	62.0		95.42	0.30	0.01						0.01	0.01	6.6									6.6
	64.0		95.52	0.20	0.18						0.18	0.18	0.07	5.5								5.5
	66.0		95.62	0.10	0.00						0.00	0.00	0.00	5.5								5.5
	68.0		95.32	0.40	0.43						0.43	0.43	5.5									5.5
	70.0		94.92	0.80	1.48						1.48	3.55	5.5									5.5
	74.0		94.72	1.00	1.30						1.30	3.90	5.5									5.5
	77.0		94.82	0.90	1.53						1.53	4.13	3.3									3.3
	80.0		94.62	1.10	1.83						1.83	6.04	9.9									9.9
	83.0		94.62	1.10	1.68						1.68	5.54	6.6									6.6
	86.0		94.72	1.00	0.63						0.63	1.89	6.6									6.6
	89.0		94.92	0.80	-0.05						-0.05	-0.12	6.6									6.6
	92.0		95.02	0.70	1.64						1.64	3.44	6.6									6.6
	95.0		95.12	0.60	0.52						0.52	0.94	6.6									6.6
	98.0		95.02	0.70	0.95						0.95	2.00	6.6									6.6
	101.0		94.92	0.80	1.24						1.24	2.98	6.6									6.6
	104.0		95.12	0.60	1.49						1.49	2.68	6.6									6.6
	107.0		95.22	0.50	1.24						1.24	0.93	6.6									6.6
	110.0		95.22	0.50	1.44						1.44	1.08	6.6									6.6
	113.0		95.22	0.50	1.13						1.13	0.85	6.6									6.6
	116.0		95.22	0.50	1.10						1.10	0.83	6.6									6.6
	119.0		95.52	0.40	0.81						0.81	0.49	9.9									9.9
	122.0		95.42	0.30	2.00						2.00	0.90	9.9									9.9
	125.0		95.42	0.30	1.25						1.25	0.56	9.9									9.9
	128.0		95.22	0.50	1.13						1.13	0.85	9.9									9.9
	131.0		95.32	0.40	0.11						0.11	0.07	7.7									7.7
	134.0		95.32	0.40	0.65						0.65	0.03	7.7									7.7
RWE	134.9		95.72	0.00	0.00						0.00	0.00	7.7									7.7
	135.0		10.15	96.28									7.7									7.7
	137.0		9.82	96.61									7.7									7.7
	139.0		9.50	96.93									7.7									7.7
	141.0		9.18	97.25									7.7									7.7
	143.0		8.75	97.68									7.7									7.7
	145.0		8.51	97.92									7.7									7.7
	147.0		8.28	98.15									7.7									7.7
	149.6		7.95	98.48									7.7									7.7
	151.3		7.19	99.24									7.7									7.7
	153.0		6.62	99.81									7.7									7.7
	155.8		5.87	100.56									7.7									7.7
RWP	156.0		5.46	100.97									7.7									7.7



Sycane River SY_4 06/26/93

Riffle MJD TRANSECT 1

IOC 1101100100001000101000

QARD 3.3

QARD 5.0

QARD 8.0

QARD 12.0

QARD 20.0

QARD 30.0

QARD 40.0

QARD 49.6

QARD 60.0

QARD 70.0

QARD 80.0

QARD 90.0

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 200.0

QARD 220.0

QARD 250.0

QARD 300.0

QARD 350.0

QARD 400.0

QARD 500.0

QARD 600.0

QARD 653.7

XSEC1000.0 0.00 1.0 93.25 0.0235

1000.0 0.0 99.5 2.5 99.3 5.0 99.0 7.5 98.4 10.0 98.0 12.5 97.7

1000.0 15.0 97.4 17.5 97.3 19.5 97.1 21.5 96.7 23.5 96.5 25.5 96.3

1000.0 27.5 96.4 29.5 96.8 31.5 96.8 33.5 96.3 35.5 95.9 37.5 95.5

1000.0 39.3 95.1 40.5 95.0 41.0 94.9 42.5 95.0 47.6 95.1 49.0 94.9

1000.0 50.0 94.8 52.0 94.3 54.0 94.1 55.0 94.1 56.0 93.6 57.0 93.8

1000.0 58.0 93.8 60.0 94.0 62.0 94.2 64.0 94.3 66.0 94.4 68.0 94.6

1000.0 71.0 94.6 74.0 94.8 76.2 95.1 90.5 95.1 92.5 95.0 95.0 95.0

1000.0 96.0 95.0 98.0 94.9103.0 95.0107.0 94.9109.0 94.9112.0 94.7

1000.0114.0 94.4118.0 93.9120.0 93.9122.0 93.6124.0 93.6126.0 93.3

1000.0128.0 93.5129.0 93.4130.0 93.4131.0 93.4133.0 93.4135.0 93.8

1000.0137.0 94.6139.3 95.1140.5 95.5141.5 95.9142.5 96.4143.5 96.9

1000.0145.0 97.6146.2 98.2147.6 99.1149.0100.0151.0101.0

NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6 6.6

NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6 6.6

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1

NS 1000.0 1.1 9.9 9.9 1.1 0.2 1.1 0.2 9.9

NS 1000.0 0.25 9.9 0.16 9.9 0.1 5.5 .065 5.5 .072 5.5 .072 5.5

NS 1000.0 5.5 5.5 5.5 5.5 5.5 5.5 5.5

NS 1000.0 0.3 5.5 0.15 5.5 0.15 5.5 0.15 6.6 0.12 6.6 0.06 6.6

NS 1000.0 6.6 0.05 6.6 0.05 6.6 9.9 0.55 9.9 0.55 9.9

NS 1000.0 0.55 9.9 0.55 9.9 0.55 6.6 0.55 6.6 6.6 6.6

NS 1000.0 0.4 6.6 6.6 0.15 6.6 6.6 0.3 9.9 0.4 9.9

NS 1000.0 0.5 9.9 1.1 1.1 1.1 1.1 1.1 1.1

NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1

WSL 1000.0 94.16 94.24 94.34 94.43 94.53 94.64

WSL 1000.0 94.75 95.05 95.19 95.25 95.30 95.35

WSL 1000.0 95.40 95.45 95.49 95.53 95.58 95.61

WSL 1000.0 95.65 95.69 95.73 95.80 95.87 95.96

WSL 1000.0 96.11 96.24 96.39 96.65 96.87 96.98

CAL11000.0 95.05 49.6

VEL11000.0

VEL11000.0 0.00 0.00 0.00 0.00 0.00-0.01

VEL11000.0 0.18 0.50 0.86 4.54 4.36 3.96 3.38 3.00 0.83 1.31 0.30-0.01

VEL11000.0-0.06-0.02 0.00 0.00 0.15 0.63 0.65 0.85 0.96 0.01 0.03

VEL11000.0 0.02 0.04 0.26 0.25 0.87 0.92 0.21 0.84 2.72 0.84-0.09-0.01

VEL11000.0 0.05 0.00

CAL21000.0 94.17 3.3

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

VEL21000.0

CAL31000.0 96.98 653.7

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

VEL31000.0

ENDJ

Riffle MID TRANSECT 2
IOC 1101100100001000101000
QARD 3.3
QARD 5.0
QARD 8.0
QARD 12.0
QARD 20.0
QARD 30.0
QARD 40.0
QARD 49.6
QARD 60.0
QARD 70.0
QARD 80.0
QARD 90.0
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 200.0
QARD 220.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 500.0
QARD 600.0
QARD 653.7
XSEC1000.0 0.00 1.0 94.03 0.0235
1000.0 0.0 99.2 3.0 98.9 6.0 98.6 9.0 98.4 12.0 97.7 15.0 97.6
1000.0 17.6 97.0 19.3 96.9 20.3 97.1 20.6 97.6 22.0 97.6 24.0 97.6
1000.0 25.5 97.3 26.5 97.0 26.9 96.3 28.1 95.8 28.5 95.2 29.5 94.9
1000.0 30.5 94.7 31.5 94.8 32.9 95.1 40.5 95.2 41.0 95.0 42.0 94.9
1000.0 43.0 94.8 44.0 94.9 46.0 94.9 48.0 94.7 49.0 94.7 50.0 94.7
1000.0 52.0 94.0 53.0 94.2 56.0 94.4 59.0 94.6 62.0 94.8 65.0 94.7
1000.0 68.0 94.8 71.0 94.8 74.0 94.7 77.0 94.9 82.0 95.0 87.0 95.1
1000.0 91.0 95.1 94.0 95.0 97.0 94.9100.0 94.9103.0 95.0106.0 94.9
1000.0109.0 94.8112.0 94.8115.0 94.7118.0 94.5121.0 94.3122.0 94.1
1000.0123.0 94.3124.6 95.2125.3 95.7126.5 96.2127.5 96.5129.0 96.9
1000.0131.0 97.6132.0 97.8132.3 99.5135.6100.1136.2 99.2138.1100.1
1000.0140.3100.1142.1102.4
NS 1000.0 6.7 6.7 6.7 6.7 6.7 6.7
NS 1000.0 6.7 6.7 6.7 1.1 1.1 1.1
NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1
NS 1000.0 1.00 9.9 1.00 9.9 1.00 9.9 0.30 9.9 0.3 9.9 9.9
NS 1000.0 9.9 0.60 9.9 0.60 9.9 0.5 9.9 9.9 9.9
NS 1000.0 0.10 6.6 0.10 6.6 6.6 6.6 6.6 6.6
NS 1000.0 0.45 9.9 9.9 9.9 9.9 0.25 6.6 6.6
NS 1000.0 6.6 6.6 6.6 6.6 6.6 0.30 6.6 6.6
NS 1000.0 0.35 6.6 6.6 6.6 9.9 9.9 0.09 9.9
NS 1000.0 0.080 9.9 1.1 1.1 1.1 1.1 1.1
NS 1000.0 7.7 7.7 7.7 7.7 7.7 7.7
NS 1000.0 3.3 3.3
WSL 1000.0 94.86 94.87 94.91 94.92 95.02 95.07
WSL 1000.0 95.13 95.23 95.33 95.39 95.44 95.50
WSL 1000.0 95.54 95.59 95.63 95.67 95.72 95.75
WSL 1000.0 95.79 95.82 95.86 95.93 95.99 96.07
WSL 1000.0 96.21 96.33 96.46 96.69 96.89 96.99
CAL11000.0 95.23 49.6
VEL11000.0
VEL11000.0 0.00 0.01 0.01 0.01 0.01 0.01-0.01 0.85
VEL11000.0 0.61-0.01 0.03 2.20 1.51 1.61 3.95 3.48 1.67 0.66 0.78 0.35
VEL11000.0 0.19 1.45 0.75 0.36 0.03 0.82 0.72 0.77 0.59 0.62 0.17 0.42
VEL11000.0 0.11 0.60 0.40 1.10 1.93 3.15 3.56 0.00
VEL11000.0
CAL21000.0 94.86 3.3
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0 96.99 653.7
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

Sycane River SY_4 06/26/93

Riffle	MID		TRANSECT 3										
IOC	1101100100001000101000												
QARD	3.3												
QARD	5.0												
QARD	8.0												
QARD	12.0												
QARD	20.0												
QARD	30.0												
QARD	40.0												
QARD	49.6												
QARD	60.0												
QARD	70.0												
QARD	80.0												
QARD	90.0												
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	200.0												
QARD	220.0												
QARD	250.0												
QARD	300.0												
QARD	350.0												
QARD	400.0												
QARD	500.0												
QARD	600.0												
QARD	653.7												
XSEC	1000.0 0.00 1.0 94.62 0.0235												
	1000.0	12.0	99.2	15.0	98.8	18.0	98.1	21.0	97.7	24.0	97.5	27.0	96.7
	1000.0	30.0	96.3	33.0	95.7	35.0	95.7	36.2	96.0	37.1	95.5	37.7	95.5
	1000.0	38.9	96.6	40.7	97.3	42.3	96.9	44.0	97.4	45.0	97.4	46.0	97.4
	1000.0	47.0	97.1	48.0	96.8	49.0	96.5	50.0	95.9	51.0	95.7	52.0	95.6
	1000.0	53.0	95.8	54.0	95.7	55.0	95.5	56.0	95.3	58.0	95.1	60.0	95.2
	1000.0	62.0	95.4	64.0	95.5	66.0	95.6	68.0	95.3	71.0	94.9	74.0	94.7
	1000.0	77.0	94.8	80.0	94.6	83.0	94.6	86.0	94.7	89.0	94.9	92.0	95.0
	1000.0	95.0	95.1	98.0	95.0	101.0	94.9	104.0	95.1	107.0	95.2	110.0	95.2
	1000.0	113.0	95.2	116.0	95.2	119.0	95.3	122.0	95.4	125.0	95.4	128.0	95.2
	1000.0	131.0	95.3	134.0	95.3	134.9	95.7	135.0	96.3	137.0	96.6	139.0	96.9
	1000.0	141.0	97.3	143.0	97.7	145.0	97.9	147.0	98.2	149.6	98.5	151.3	99.2
	1000.0	153.0	99.8	155.8	100.6	156.0	101.0						
NS	1000.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
NS	1000.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
NS	1000.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
NS	1000.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
NS	1000.0	1.1	1.1	1.00	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	6.6
NS	1000.0	0.5	6.6	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
NS	1000.0	3.3	9.9	6.6	6.6	6.6	6.6	0.45	6.6	0.15	6.6	6.6	6.6
NS	1000.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
NS	1000.0	6.6	6.6	0.12	9.9	0.07	9.9	9.9	9.9	9.9	9.9	9.9	9.9
NS	1000.0	0.20	7.7	0.40	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
NS	1000.0	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
NS	1000.0	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
WSL	1000.0	95.25	95.26	95.35	95.43	95.53	95.61						
WSL	1000.0	95.68	95.72	95.78	95.84	95.89	95.94						
WSL	1000.0	95.98	96.03	96.07	96.11	96.14	96.17						
WSL	1000.0	96.21	96.23	96.26	96.32	96.37	96.43						
WSL	1000.0	96.53	96.61	96.69	96.82	96.94	97.00						
CAL	11000.0	95.72	49.6										
VEL	11000.0												
VEL	11000.0												
VEL	11000.0	0.00-0.04	0.14	0.37	0.12	0.01	0.18	0.00	0.43	1.48	1.30		
VEL	11000.0	1.53	1.83	1.68	0.63-0.05	1.64	0.52	0.95	1.24	1.49	1.24	1.44	
VEL	11000.0	1.13	1.10	0.81	2.00	1.25	1.13	0.11	0.05	0.00			
VEL	11000.0												
CAL	21000.0	95.25	3.3										
VEL	21000.0												
VEL	21000.0												
VEL	21000.0												
VEL	21000.0												
VEL	21000.0												
VEL	21000.0												
VEL	21000.0												
CAL	31000.0	96.99	653.7										
VEL	31000.0												
VEL	31000.0												
VEL	31000.0												
VEL	31000.0												
VEL	31000.0												
VEL	31000.0												
VEL	31000.0												
VEL	31000.0												
ENDJ													

Sycane River SY_4 06/26/93

Riffle

MID

TRANSECT 1

IOC 01100000000000000000

QARD 3.3
 QARD 5.0
 QARD 8.0
 QARD 12.0
 QARD 20.0
 QARD 30.0
 QARD 40.0
 QARD 49.6
 QARD 60.0
 QARD 70.0
 QARD 80.0
 QARD 90.0
 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 200.0
 QARD 220.0
 QARD 250.0
 QARD 300.0
 QARD 350.0
 QARD 400.0
 QARD 500.0
 QARD 600.0
 QARD 653.7

XSEC1000.0 0.00 1.0 93.25 0.0235

1000.0	0.0	99.5	2.5	99.3	5.0	99.0	7.5	98.4	10.0	98.0	12.5	97.7
1000.0	15.0	97.4	17.5	97.3	19.5	97.1	21.5	96.7	23.5	96.5	25.5	96.3
1000.0	27.5	96.4	29.5	96.8	31.5	96.8	33.5	96.3	35.5	95.9	37.5	95.5
1000.0	39.3	95.1	40.5	95.0	41.0	94.9	42.5	95.0	47.6	95.1	49.0	94.9
1000.0	50.0	94.8	52.0	94.3	54.0	94.1	55.0	94.1	56.0	93.6	57.0	93.8
1000.0	58.0	93.8	60.0	94.0	62.0	94.2	64.0	94.3	66.0	94.4	68.0	94.6
1000.0	71.0	94.6	74.0	94.8	76.2	95.1	80.5	95.1	92.5	95.0	95.0	95.0
1000.0	96.0	95.0	98.0	94.9	103.0	95.0	107.0	94.9	109.0	94.9	112.0	94.7
1000.0	114.0	94.4	118.0	93.9	120.0	93.9	122.0	93.6	124.0	93.6	126.0	93.3
1000.0	128.0	93.5	129.0	93.4	130.0	93.4	131.0	93.4	133.0	93.4	135.0	93.8
1000.0	137.0	94.6	139.3	95.1	140.5	95.5	141.5	95.9	142.5	96.4	143.5	96.9
1000.0	145.0	97.6	146.2	98.2	147.6	99.1	149.0	100.0	151.0	101.0		
NS 1000.0		6.6		6.6		6.6		6.6		6.6		6.6
NS 1000.0		6.6		6.6		6.6		6.6		6.6		6.6
NS 1000.0		1.1		1.1		1.1		1.1		1.1		1.1
NS 1000.0		1.1		9.9		9.9		1.1		1.1		9.9
NS 1000.0		9.9		9.9		5.5		5.5		5.5		5.5
NS 1000.0		5.5		5.5		5.5		5.5		5.5		5.5
NS 1000.0		5.5		5.5		5.5		6.6		6.6		6.6
NS 1000.0		6.6		6.6		6.6		9.9		9.9		9.9
NS 1000.0		9.9		9.9		6.6		6.6		6.6		6.6
NS 1000.0		6.6		6.6		6.6		6.6		9.9		9.9
NS 1000.0		9.9		1.1		1.1		1.1		1.1		1.1
NS 1000.0		1.1		1.1		1.1		1.1		1.1		1.1
CALQ1000.0		95.05		49.6		-2.50						
ENDJ												

Sycane River SY_4 06/26/93

Riffle

MID

TRANSECT 1

IOC 01100000000000000000

QARD 3.3
 QARD 5.0
 QARD 8.0
 QARD 12.0
 QARD 20.0
 QARD 30.0
 QARD 40.0
 QARD 49.6
 QARD 60.0
 QARD 70.0
 QARD 80.0
 QARD 90.0
 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 200.0
 QARD 220.0
 QARD 250.0
 QARD 300.0
 QARD 350.0
 QARD 400.0
 QARD 500.0
 QARD 600.0
 QARD 653.7

XSEC1000.0 0.00 1.0 93.25 0.0235
 1000.0 0.0 99.5 2.5 99.3 5.0 99.0 7.5 98.4 10.0 98.0 12.5 97.7
 1000.0 15.0 97.4 17.5 97.3 19.5 97.1 21.5 96.7 23.5 96.5 25.5 96.3
 1000.0 27.5 96.4 29.5 96.8 31.5 96.8 33.5 96.3 35.5 95.9 37.5 95.5
 1000.0 39.3 95.1 40.5 95.0 41.0 94.9 42.5 95.0 47.6 95.1 49.0 94.9
 1000.0 50.0 94.8 52.0 94.3 54.0 94.1 55.0 94.1 56.0 93.6 57.0 93.8
 1000.0 58.0 93.8 60.0 94.0 62.0 94.2 64.0 94.3 66.0 94.4 68.0 94.6
 1000.0 71.0 94.6 74.0 94.8 76.2 95.1 90.5 95.1 92.5 95.0 95.0 95.0
 1000.0 96.0 95.0 98.0 94.9103.0 95.0107.0 94.9109.0 94.9112.0 94.7
 1000.0114.0 94.4118.0 93.9120.0 93.9122.0 93.6124.0 93.6126.0 93.3
 1000.0128.0 93.5129.0 93.4130.0 93.4131.0 93.4133.0 93.4135.0 93.8
 1000.0137.0 94.6139.3 95.1140.5 95.5141.5 95.9142.5 96.4143.5 96.9
 1000.0145.0 97.6146.2 98.2147.6 99.1149.0100.0151.0101.0
 NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6
 NS 1000.0 6.6 6.6 6.6 6.6 6.6 6.6
 NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1
 NS 1000.0 1.1 9.9 9.9 1.1 1.1 9.9
 NS 1000.0 9.9 9.9 5.5 5.5 5.5 5.5
 NS 1000.0 5.5 5.5 5.5 5.5 5.5 5.5
 NS 1000.0 5.5 5.5 5.5 6.6 6.6 6.6
 NS 1000.0 6.6 6.6 6.6 9.9 9.9 9.9
 NS 1000.0 9.9 9.9 6.6 6.6 6.6 6.6
 NS 1000.0 6.6 6.6 6.6 6.6 9.9 9.9
 NS 1000.0 9.9 1.1 1.1 1.1 1.1 1.1
 NS 1000.0 1.1 1.1 1.1 1.1 1.1
 CALQ1000.0 96.98 653.7 -0.20
 ENDJ

Sycane River SY_4 06/26/93

RUN	MID			
PARD	30	1.00	0	1.000
QARD	3.3	94.16		5.800 5.800
QARD	5.0	94.24		4.000 4.000
QARD	8.0	94.34		3.000 3.000
QARD	12.0	94.43		2.000 2.000
QARD	20.0	94.53		1.750 1.750
QARD	30.0	94.64		1.400 1.400
QARD	40.0	94.75		1.200 1.200
QARD	49.6	95.05		1.000 1.000
QARD	60.0	95.19		0.990 0.990
QARD	70.0	95.25		0.980 0.980
QARD	80.0	95.30		0.970 0.970
QARD	90.0	95.35		0.960 0.960
QARD	100.0	95.40		0.950 0.950
QARD	110.0	95.45		0.940 0.940
QARD	120.0	95.49		0.920 0.920
QARD	130.0	95.53		0.910 0.910
QARD	140.0	95.58		0.900 0.900
QARD	150.0	95.61		0.890 0.890
QARD	160.0	95.65		0.880 0.880
QARD	170.0	95.69		0.870 0.870
QARD	180.0	95.73		0.860 0.860
QARD	200.0	95.80		0.840 0.840
QARD	220.0	95.87		0.820 0.820
QARD	250.0	95.96		0.780 0.780
QARD	300.0	96.11		0.730 0.730
QARD	350.0	96.24		0.680 0.680
QARD	400.0	96.39		0.620 0.620
QARD	500.0	96.65		0.520 0.520
QARD	600.0	96.87		0.410 0.410
QARD	653.7	96.98		0.350 0.350

FFFFFFFF

**

11.4	0.0	99.5	2.5	99.3	5.0	99.0	7.5	98.4	10.0	98.0	12.5	97.7
11.4	15.0	97.4	17.5	97.3	19.5	97.1	21.5	96.7	23.5	96.5	25.5	96.3
11.4	27.5	96.4	29.5	96.8	31.5	96.8	33.5	96.3	35.5	95.9	37.5	95.5
11.4	39.3	95.1	40.5	95.0	41.0	94.9	42.5	95.0	47.6	95.1	49.0	94.9
11.4	50.0	94.8	52.0	94.3	54.0	94.1	55.0	94.1	56.0	93.6	57.0	93.8
11.4	58.0	93.8	60.0	94.0	62.0	94.2	64.0	94.3	66.0	94.4	68.0	94.6
11.4	71.0	94.6	74.0	94.8	76.2	95.1	90.5	95.1	92.5	95.0	95.0	95.0
11.4	96.0	95.0	98.0	94.9103.0	95.0107.0	94.9109.0	94.9112.0	94.7				
11.4	114.0	94.4118.0	93.9120.0	93.9122.0	93.6124.0	93.6126.0	93.3					
11.4	128.0	93.5129.0	93.4130.0	93.4131.0	93.4133.0	93.4135.0	93.8					
11.4	137.0	94.6139.3	95.1140.5	95.5141.5	95.9142.5	96.4143.5	96.9					
11.4	145.0	97.6146.2	98.2147.6	99.1149.0	100.0151.0	101.01.0						
11.4	0.13	0.0	0.13	2.5	0.13	5.0	0.13	7.5	*			
11.4	0.13	10.0	0.13	12.5	0.13	15.0	0.13	17.5	*			
11.4	0.13	19.5	0.13	21.5	0.13	23.5	0.13	25.5	*			
11.4	0.13	27.5	0.13	29.5	0.13	31.5	0.13	33.5	*			
11.4	0.13	35.5	0.13	37.5	0.13	39.3	0.13	40.5	*			
11.4	0.13	41.0	0.13	42.5	0.13	47.6	0.13	49.0	*			
11.4	0.13	50.0	0.13	52.0	0.13	54.0	0.13	55.0	*			
11.4	0.13	56.0	0.13	57.0	0.13	58.0	0.13	60.0	*			
11.4	0.13	62.0	0.13	64.0	0.13	66.0	0.13	68.0	*			
11.4	0.13	71.0	0.13	74.0	0.13	76.2	0.13	90.5	*			
11.4	0.13	92.5	0.13	95.0	0.13	96.0	0.13	98.0	*			
11.4	0.13	103.0	0.13	107.0	0.13	109.0	0.13	112.0	*			
11.4	0.13	114.0	0.13	118.0	0.13	120.0	0.13	122.0	*			
11.4	0.13	124.0	-0.13	126.0	0.13	128.0	0.13	129.0	*			
11.4	0.13	130.0	0.13	131.0	0.13	133.0	0.13	135.0	*			
11.4	0.13	137.0	0.13	139.3	0.13	140.5	0.13	141.5	*			
11.4	0.13	142.5	0.13	143.5	0.13	145.0	0.13	146.2	*			
11.4	0.13	147.6	0.13	149.0	0.13	151.0			*			
22.8	0.0	99.2	3.0	98.9	6.0	98.6	9.0	98.4	12.0	97.7	15.0	97.6
22.8	17.6	97.0	19.3	96.9	20.3	97.1	20.6	97.6	22.0	97.6	24.0	97.6
22.8	25.5	97.3	26.5	97.0	26.9	96.3	28.1	95.8	28.5	95.2	29.5	94.9
22.8	30.5	94.7	31.5	94.8	32.9	95.1	40.5	95.2	41.0	95.0	42.0	94.9
22.8	43.0	94.8	44.0	94.9	46.0	94.9	48.0	94.7	49.0	94.7	50.0	94.7
22.8	52.0	94.0	53.0	94.2	56.0	94.4	59.0	94.6	62.0	94.8	65.0	94.7
22.8	68.0	94.8	71.0	94.8	74.0	94.7	77.0	94.9	82.0	95.0	87.0	95.1
22.8	91.0	95.1	94.0	95.0	97.0	94.9100.0	94.9103.0	95.0106.0	94.9			
22.8	109.0	94.8112.0	94.8115.0	94.7118.0	94.5121.0	94.3122.0	94.1					
22.8	123.0	94.3124.6	95.2125.3	95.7126.5	96.2127.5	96.5129.0	96.9					
22.8	131.0	97.6132.0	97.8132.3	99.5135.6	100.1136.2	99.2138.1	100.1					
22.8	140.3	100.1142.1	1102.4									
22.8	0.13	0.0	0.13	3.0	0.13	6.0	0.13	9.0	*			
22.8	0.13	12.0	0.13	15.0	0.13	17.6	0.13	19.3	*			
22.8	0.13	20.3	0.13	20.6	0.13	22.0	0.13	24.0	*			
22.8	0.13	25.5	0.13	26.5	0.13	26.9	0.13	28.1	*			
22.8	0.13	28.5	0.13	29.5	0.13	30.5	0.13	31.5	*			

22.8	0.13	32.9	0.13	40.5	0.13	41.0	0.13	42.0	*
22.8	0.13	43.0	0.13	44.0	0.13	46.0	0.13	48.0	*
22.8	0.13	49.0	0.13	50.0	-0.13	52.0	0.13	53.0	*
22.8	0.13	56.0	0.13	59.0	0.13	62.0	0.13	65.0	*
22.8	0.13	68.0	0.13	71.0	0.13	74.0	0.13	77.0	*
22.8	0.13	82.0	0.13	87.0	0.13	91.0	0.13	94.0	*
22.8	0.13	97.0	0.13	100.0	0.13	103.0	0.13	106.0	*
22.8	0.13109.0		0.13	112.0	0.13	115.0	0.13	118.0	*
22.8	0.13121.0		0.13	122.0	0.13	123.0	0.13	124.6	*
22.8	0.13125.3		0.13	126.5	0.13	127.5	0.13	129.0	*
22.8	0.13131.0		0.13	132.0	0.13	132.3	0.13	135.6	*
22.8	0.13136.2		0.13	138.1	0.13	140.3	0.13	142.1	*

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Sycane River SY_4 06/26/93

RUN	MID											
PARD 30	1.00	0	1.000									
QARD 3.3	94.86		2.900	2.900								
QARD 5.0	94.87		2.000	2.000								
QARD 8.0	94.91		1.800	1.800								
QARD 12.0	94.92		1.630	1.630								
QARD 20.0	95.02		1.400	1.400								
QARD 30.0	95.07		1.200	1.200								
QARD 40.0	95.13		1.100	1.100								
QARD 49.6	95.23		1.000	1.000								
QARD 60.0	95.33		0.990	0.990								
QARD 70.0	95.39		0.970	0.970								
QARD 80.0	95.44		0.960	0.960								
QARD 90.0	95.50		0.950	0.950								
QARD 100.0	95.54		0.930	0.930								
QARD 110.0	95.59		0.920	0.920								
QARD 120.0	95.63		0.910	0.910								
QARD 130.0	95.67		0.900	0.900								
QARD 140.0	95.72		0.880	0.880								
QARD 150.0	95.75		0.870	0.870								
QARD 160.0	95.79		0.860	0.860								
QARD 170.0	95.82		0.840	0.840								
QARD 180.0	95.86		0.830	0.830								
QARD 200.0	95.93		0.810	0.810								
QARD 220.0	95.99		0.780	0.780								
QARD 250.0	96.07		0.740	0.740								
QARD 300.0	96.21		0.680	0.680								
QARD 350.0	96.33		0.610	0.610								
QARD 400.0	96.46		0.550	0.550								
QARD 500.0	96.69		0.420	0.420								
QARD 600.0	96.89		0.290	0.290								
QARD 653.7	96.99		0.220	0.220								
FFFFTTTT										**		
22.8	0.0	99.2	3.0	98.9	6.0	98.6	9.0	98.4	12.0	97.7	15.0	97.6
22.8	17.6	97.0	19.3	96.9	20.3	97.1	20.6	97.6	22.0	97.6	24.0	97.6
22.8	25.5	97.3	26.5	97.0	26.9	96.3	28.1	95.8	28.5	95.2	29.5	94.9
22.8	30.5	94.7	31.5	94.8	32.9	95.1	40.5	95.2	41.0	95.0	42.0	94.9
22.8	43.0	94.8	44.0	94.9	46.0	94.9	48.0	94.7	49.0	94.7	50.0	94.7
22.8	52.0	94.0	53.0	94.2	56.0	94.4	59.0	94.6	62.0	94.8	65.0	94.7
22.8	68.0	94.8	71.0	94.8	74.0	94.7	77.0	94.9	82.0	95.0	87.0	95.1
22.8	91.0	95.1	94.0	95.0	97.0	94.9100.0	94.9103.0	95.0106.0	94.9			
22.8	109.0	94.8112.0	94.8115.0	94.7118.0	94.5121.0	94.3122.0	94.1					
22.8	123.0	94.3124.6	95.2125.3	95.7126.5	96.2127.5	96.5129.0	96.9					
22.8	131.0	97.6132.0	97.8132.3	99.5135.6	100.1136.2	99.2138.1	1100.1					
22.8	140.0	3100.1142.1	1102.4									
22.8	0.16	0.0	0.16	3.0	0.16	6.0	0.16	9.0				*
22.8	0.16	12.0	0.16	15.0	0.16	17.6	0.16	19.3				*
22.8	0.16	20.3	0.16	20.6	0.16	22.0	0.16	24.0				*
22.8	0.16	25.5	0.16	26.5	0.16	26.9	0.16	28.1				*
22.8	0.16	28.5	0.16	29.5	0.16	30.5	0.16	31.5				*
22.8	0.16	32.9	0.16	40.5	0.16	41.0	0.16	42.0				*
22.8	0.16	43.0	0.16	44.0	0.16	46.0	0.16	48.0				*
22.8	0.16	49.0	0.16	50.0	0.16	52.0	0.16	53.0				*
22.8	0.16	56.0	0.16	59.0	0.16	62.0	0.16	65.0				*
22.8	0.16	68.0	0.16	71.0	0.16	74.0	0.16	77.0				*
22.8	0.16	82.0	0.16	87.0	0.16	91.0	0.16	94.0				*
22.8	0.16	97.0	0.16	100.0	0.16	103.0	0.16	106.0				*
22.8	0.16109.0		0.16	112.0	0.16	115.0	0.16	118.0				*
22.8	0.16121.0		0.16	122.0	0.16	123.0	0.16	124.6				*
22.8	0.16125.3		0.16	126.5	0.16	127.5	0.16	129.0				*
22.8	0.16131.0		0.16	132.0	0.16	132.3	0.16	135.6				*
22.8	0.16136.2		0.16	138.1	0.16	140.3	0.16	142.1				*
39.9	12.0	99.2	15.0	98.8	18.0	98.1	21.0	97.7	24.0	97.5	27.0	96.7
39.9	30.0	96.3	33.0	95.7	35.0	95.7	36.2	96.0	37.1	95.5	37.7	95.5
39.9	38.9	96.6	40.7	97.3	42.3	96.9	44.0	97.4	45.0	97.4	46.0	97.4
39.9	47.0	97.1	48.0	96.8	49.0	96.5	50.0	95.9	51.0	95.7	52.0	95.6
39.9	53.0	95.8	54.0	95.7	55.0	95.5	56.0	95.3	58.0	95.1	60.0	95.2
39.9	62.0	95.4	64.0	95.5	66.0	95.6	68.0	95.3	71.0	94.9	74.0	94.7
39.9	77.0	94.8	80.0	94.6	83.0	94.6	86.0	94.7	89.0	94.9	92.0	95.0
39.9	95.0	95.1	98.0	95.0101.0	94.9104.0	95.1107.0	95.2110.0	95.2				
39.9	113.0	95.2116.0	95.2119.0	95.3122.0	95.4125.0	95.4128.0	95.2					
39.9	131.0	95.3134.0	95.3134.9	95.7135.0	96.3137.0	96.6139.0	96.9					
39.9	141.0	97.3143.0	97.7145.0	97.9147.0	98.2149.6	98.5151.3	99.2					
39.9	153.0	99.8155.8	100.6156.0	101.0								
39.9	0.17	12.0	0.17	15.0	0.17	18.0	0.17	21.0				*
39.9	0.17	24.0	0.17	27.0	0.17	30.0	0.17	33.0				*
39.9	0.17	35.0	0.17	36.2	0.17	37.1	0.17	37.7				*
39.9	0.17	38.9	0.17	40.7	0.17	42.3	0.17	44.0				*
39.9	0.17	45.0	0.17	46.0	0.17	47.0	0.17	48.0				*
39.9	0.17	49.0	0.17	50.0	0.17	51.0	0.17	52.0				*

39.9 0.17 53.0	0.17 54.0	0.17 55.0	0.17 56.0	*
39.9 0.17 58.0	0.17 60.0	0.17 62.0	0.17 64.0	*
39.9 0.17 66.0	0.17 68.0	0.17 71.0	0.17 74.0	*
39.9 0.17 77.0	- .17 80.0	0.17 83.0	0.17 86.0	*
39.9 0.17 89.0	0.17 92.0	0.17 95.0	0.17 98.0	*
39.9 0.17101.0	0.17 104.0	0.17 107.0	0.17 110.0	*
39.9 0.17113.0	0.17 116.0	0.17 119.0	0.17 122.0	*
39.9 0.17125.0	0.17 128.0	0.17 131.0	0.17 134.0	*
39.9 0.17134.9	0.17 135.0	0.17 137.0	0.17 139.0	*
39.9 0.17141.0	0.17 143.0	0.17 145.0	0.17 147.0	*
39.9 0.17149.6	0.17 151.3	0.17 153.0	0.17 155.8	*
39.9 0.17156.0				*

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Stream: Sycan River (Sycan River above Torrent Springs)

Site: SY-4

Date: 5/15/93

Habitat: Run

Flow: High

Date: 6/26/93

Habitat: Run

Flow: Mid

Date: 9/14/93

Habitat: Run

Flow: Low

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.91	103.91		
HP1			4.87	99.04
HP2			4.03	99.88
HP3			4.58	99.33
TP				
HP3	4.14	103.47		
HP2			4.59	98.88
HP1			4.43	99.04
BM			3.47	100.00

Comment:

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	6.45	106.45		
HP1			6.66	99.79
HP2			7.18	99.27
HP3			6.93	99.52
TP				
HP3	6.91	106.43		
HP2			7.16	99.27
HP1			6.64	99.79
BM			6.43	100.00

Comment: This is Rifle's level loop

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.91	103.91		
HP1			4.87	99.04
HP2			5.03	98.88
HP3			4.58	99.33
TP				
HP3	4.44	103.77		
HP2			4.91	98.86
HP1			4.73	99.04
BM			3.78	99.99

Comment:

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	106 133.5	103.47 103.47	5.67 5.66	0.00 0.00	97.80 97.81	97.81	653.7
TR2	LWE RWE	133.5 189.7	103.47 103.47	5.65 5.61	0.00 0.00	97.82 97.86	97.84	
TR3	LWE RWE	189.7	103.47	5.60 5.67	0.00 0.00	97.87 97.80	97.84	
							Ave Q=	653.7

Note:
WSE slope = 0.036%

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	106 133.5	104.03 104.03	7.45 7.42	0.00 0.00	96.58 96.57	96.58	48.8
TR2	LWE RWE	133.5 189.7	104.03 104.03	7.42 7.43	0.00 0.00	96.61 96.60	96.61	50.0
TR3	LWE RWE	189.7	104.03	7.45 7.44	0.00 0.00	96.58 96.59	96.59	55.3
							Ave Q(Run)=	51.3
							Ave Q(Rifle)=	47.9
							Ave Q(Run & Rifle)=	49.6

Note:
WSE slope = 0.012%

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	106 133.5	103.77 103.77	8.22 8.20	0.00 0.00	95.55 95.57	95.56	3.4
TR2	LWE RWE	133.5 189.7	103.77 103.77	8.19 8.20	0.00 0.00	95.58 95.57	95.58	2.0
TR3	LWE RWE	189.7	103.77	8.17 8.18	0.00 0.00	95.60 95.59	95.60	3.8
							Ave Q(Run)=	3.0
							Ave Q(Rifle)=	3.5
							Ave Q(Run & Rifle)=	3.3

Note:
WSE slope = 0.042%

Stream: Steam River
 Site: SY-4
 Transect: 1
 Habitat: Run

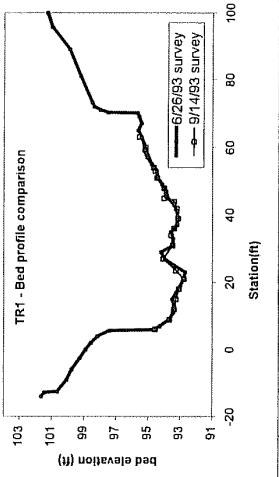
Survey Date	HI (ft)	Q (cfs)
3/15/93	103.47	653.7
6/26/93	104.03	48.8
9/14/93	103.77	3.4

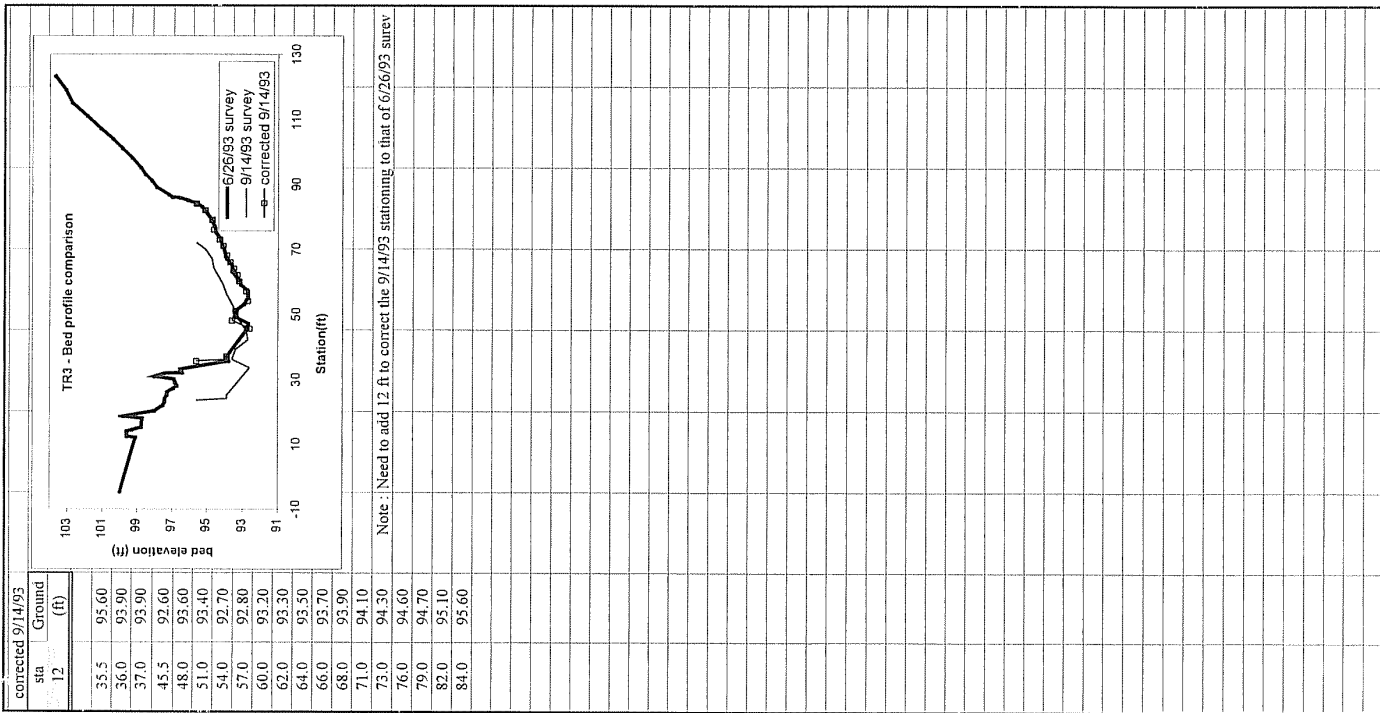
Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)		q (cfs)	substrate
				V _{0.2-0.6}	V _{0.8}		
RWE 13.1				0.00		0.00	
15.5			0.35	0.29		0.29	0.25
18			0.50	0.29		0.29	0.54
23			1.00	0.84		0.84	4.20
28			0.90	1.33		1.33	6.89
33			2.40	2.08		2.08	24.96
38			2.90	2.25		2.25	17.91
43			4.30	2.06		1.49	31.93
48			5.00	1.66		1.81	45.13
53			5.00	3.10		2.99	64.75
58			4.70	3.12		1.82	2.47
63			4.50	3.05		2.34	2.70
68			4.10	3.44		2.75	3.10
73			3.70	3.53		2.88	3.21
78			4.10	3.37		2.77	3.07
83			4.30	3.05		2.43	2.74
88			4.00	3.23		1.21	2.22
93			2.55	3.05		2.14	2.60
96			2.30	1.85			1.85
98			1.75	1.16			1.16
101			1.55	0.53			0.53
104			1.65	0.97			0.97
106			1.10	0.41			0.41
108			1.10	0.00			0.00
109.0			0.00	0.00			0.00

This is not profile. This is the Q-transsect.

Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)		q (cfs)	substrate
				V _{0.2-0.6}	V _{0.8}		
-14.0	2.40	101.63					1.1
-12.9	2.59	101.44					1.1
-12.6	3.37	100.66					1.1
-9.0	3.97	100.06					1.1
-6.0	4.27	99.76					1.1
-2.5	4.78	99.25					1.1
0.0	5.15	98.88					1.1
2.0	5.47	98.56					1.1
4.0	5.89	98.14					1.1
5.7	6.63	97.40					1.1
LWE 5.9	9.42	94.61	1.85	0.01		0.01	0.01
7.0		94.28	2.30	0.01		0.01	0.04
9.0		93.68	2.90	0.14	-0.09	0.03	0.15
11.0		93.43	3.15	0.27	0.12	0.20	1.23
13.0		93.38	3.20	0.44	0.11	0.28	1.76
15.0		93.43	3.10	0.35	0.29	0.32	1.98
17.0		93.23	3.35	0.37	0.29	0.33	2.21
19.0		92.98	3.60	0.30	0.42	0.46	3.31
21.0		92.78	3.80	0.08	0.42	0.25	1.90
23.0		92.68	3.90	0.04	0.21	0.13	0.98
25.0		93.38	3.20	-0.01	-0.02	-0.02	-0.10
27.0		93.98	2.60	0.02	-0.01	0.01	0.03
29.0		94.18	2.40	0.08		0.08	0.38
31.0		93.43	3.15	0.32	0.07	0.30	1.86
33.0		93.43	3.15	0.46	0.20	0.33	2.08
35.0		93.58	3.00	0.08	0.13	0.11	0.63
37.0		93.18	3.40	0.00	0.42	0.21	1.43
39.0		93.18	3.40	0.67	0.35	0.51	3.47
41.0		93.18	3.40	0.76	0.48	0.62	4.22
43.0		93.38	3.20	0.58	0.61	0.60	3.81
45.0		93.78	2.80	0.67	0.68	0.68	3.78
47.0		93.88	2.70	0.81	0.60	0.71	3.81
49.0		94.13	2.45	0.51	0.51	0.51	2.50
51.0		94.43	2.15	0.58	0.42	0.58	2.49
53.0		94.48	2.10	0.38	0.38	0.38	1.60
55.0		94.78	1.80	0.38	0.38	0.38	1.37
57.0		95.08	1.50	0.35	0.35	0.35	1.05
59.0		95.28	1.30	0.13	0.13	0.13	0.34
61.0		95.28	1.30	0.09	0.09	0.09	0.23
63.0		95.43	1.15	0.04	0.04	0.04	0.09
65.0		95.63	0.95	0.02	0.02	0.02	0.04
67.0		95.43	1.15	0.03	0.03	0.03	0.07
69.0		95.58	1.00	0.01	0.01	0.01	0.02
RWE 70.1		95.68	0.90	0.03	0.03	0.03	0.01
70.2	6.52	97.51					1.1
71.0	6.04	97.99					1.1
72.0	5.65	98.38					1.1
73.2	5.52	98.51					1.1
81.0	4.81	99.22					1.1
89.0	4.12	99.91					1.1
95.7	3.03	101.00					1.1
100.0	2.75	101.28					1.1

Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)		q (cfs)	substrate
				V _{0.2-0.6}	V _{0.8}		
LWE 6.1		94.56	1.00	0.01		0.01	0.01
9.0		93.66	1.90	0.01		0.01	0.06
12.0		93.36	2.20	0.05		0.05	0.33
15.0		93.26	2.30	0.04		0.04	0.28
18.0		93.06	2.50	0.02	0.03	0.03	0.19
21.0		92.76	2.80	0.06	0.07	0.07	0.50
23.5		93.26	2.30	0.06		0.06	0.41
27.0		94.06	1.50	0.03		0.03	0.17
31.0		93.46	2.10	0.04		0.04	0.29
34.0		93.56	2.00	-0.01		-0.01	-0.05
36.0		93.36	2.20	0.01		0.01	0.06
39.0		93.11	2.45	0.01		0.01	0.07
42.0		93.21	2.35	0.02		0.02	0.12
44.0		93.56	2.20	0.08		0.08	0.26
45.0		94.01	1.53	0.12		0.12	0.37
48.0		94.01	1.55	0.05		0.05	0.23
51.0		94.46	1.10	0.01		0.01	0.03
53.0		94.56	1.00	0.01		0.01	0.02
54.0		94.66	0.90	-0.01		-0.01	-0.03
60.0		95.16	0.40	0.02		0.02	0.04
RWE 63.0		95.56	0.00	0.00		0.00	0.00





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Sycane River SY_4 06/26/93
RUN MID TRANSECT 1
IOC 1101100000001000101000
QARD 3.3
QARD 5.0
QARD 8.0
QARD 12.0
QARD 20.0
QARD 30.0
QARD 40.0
QARD 49.6
QARD 60.0
QARD 70.0
QARD 80.0
QARD 90.0
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 200.0
QARD 220.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 500.0
QARD 600.0
QARD 653.7
XSEC1000.0 0.00 1.0 92.68 0.00012
1000.0-14.0101.6-12.9101.4-12.6100.7 -9.0100.1 -6.0 99.8 -2.5 99.3
1000.0 0.0 98.9 2.0 98.6 4.0 98.1 5.7 97.4 5.9 94.6 7.0 94.3
1000.0 9.0 93.7 11.0 93.4 13.0 93.4 15.0 93.5 17.0 93.2 19.0 93.0
1000.0 21.0 92.8 23.0 92.7 25.0 93.4 27.0 94.0 29.0 94.2 31.0 93.4
1000.0 33.0 93.4 35.0 93.6 37.0 93.2 39.0 93.2 41.0 93.2 43.0 93.4
1000.0 45.0 93.8 47.0 93.9 49.0 94.1 51.0 94.4 53.0 94.5 55.0 94.8
1000.0 57.0 95.1 59.0 95.3 61.0 95.3 63.0 95.4 65.0 95.6 67.0 95.4
1000.0 69.0 95.6 70.1 95.7 70.2 97.5 71.0 98.0 72.0 98.4 73.2 98.5
1000.0 81.0 99.2 89.0 99.9 95.7101.0100.0101.3
NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1 1.1
NS 1000.0 1.1 1.1 1.1 0.4 1.1 0.3 1.1 0.3 3.3
NS 1000.0 0.3 3.3 8.8 8.8 8.8 8.8 8.8
NS 1000.0 8.6 8.6 0.3 8.6 0.2 5.5 0.2 5.5 5.5
NS 1000.0 5.5 0.1 5.5 5.5 6.6 6.8 6.8
NS 1000.0 .055 8.8 .055 8.6 8.6 8.6 8.8 9.8
NS 1000.0 9.9 0.08 9.9 0.1 9.9 0.12 9.8 0.16 1.1 0.2 1.1
NS 1000.0 0.2 1.1 0.2 1.1 .2 1.1 .2 1.1 .2 1.1 1.1
NS 1000.0 1.1 1.1 1.1 1.1
CAL11000.0 96.58 49.6
VEL11000.0 0.01 0.01
VEL11000.0 0.03 0.20 0.28 0.32 0.33 0.46 0.25 0.13-0.02 0.01 0.08 0.30
VEL11000.0 0.33 0.11 0.21 0.51 0.62 0.60 0.68 0.71 0.51 0.58 0.38 0.38
VEL11000.0 0.35 0.13 0.09 0.04 0.02 0.03 0.01 0.03
VEL11000.0
CAL21000.0 95.56 3.3
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0 97.81 653.7
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ
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Sycane River SY_4 06/26/93
RUN                               MID                               TRANSECT 2
IOC                               1101100000001000101000
QARD 3.3
QARD 5.0
QARD 8.0
QARD 12.0
QARD 20.0
QARD 30.0
QARD 40.0
QARD 49.6
QARD 60.0
QARD 70.0
QARD 80.0
QARD 90.0
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 200.0
QARD 220.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 500.0
QARD 600.0
QARD 653.7
XSEC1000.0      0.00 1.0      92.68  0.00012
1000.0 -5.0 99.4 -3.0 99.0 0.0 98.4 2.0 98.2 3.0 97.8 4.0 97.5
1000.0 5.0 96.8 5.5 96.6 6.0 96.4 7.0 96.0 9.0 93.9 11.0 93.2
1000.0 13.0 93.1 15.0 93.0 17.0 92.9 19.0 93.0 21.0 92.7 23.0 92.6
1000.0 25.0 92.6 27.0 92.7 29.0 92.6 31.0 92.7 33.0 93.0 35.0 93.2
1000.0 37.0 93.5 39.0 93.6 41.0 93.8 43.0 93.9 45.0 94.0 47.0 94.2
1000.0 49.0 94.2 51.0 94.5 53.0 94.7 55.0 94.8 57.0 95.0 59.0 94.8
1000.0 61.0 95.1 63.0 95.3 64.0 95.5 65.0 95.7 65.5 95.9 65.9 97.3
1000.0 66.7 97.9 68.0 98.1 69.7 98.1 73.0 98.6 76.0 99.0 80.0 99.7
1000.0 85.0100.8 88.0101.3
NS 1000.0      1.1      1.1      1.1      1.1      1.1      1.1
NS 1000.0      1.1      1.1      1.1 0.5  1.1 0.5  8.8 0.5  8.9
NS 1000.0 0.5  8.8      8.6      8.6      8.6      8.6      8.6      8.6
NS 1000.0      8.6      8.6      8.6 0.09  8.6 0.09  8.6 0.07  8.6
NS 1000.0      8.6 .055  8.6 .055  8.6      8.6      8.6      8.6
NS 1000.0      8.6      8.6      8.6      8.6 0.1  9.8 0.2  9.8
NS 1000.0 0.3  9.8 0.5  9.8 0.5  9.8 0.5  9.8 0.5  9.8      1.3
NS 1000.0      1.3      1.3      1.3      1.3      1.3      1.3
NS 1000.0      1.3      1.3
CAL11000.0      96.61      49.6
VEL11000.0                                0.00 0.01 0.02 0.02 0.01
VEL11000.0 0.04 0.08 0.11 0.15 0.22 0.26 0.36 0.30 0.33 0.36 0.32 0.62
VEL11000.0 0.47 0.62 0.70 0.63 0.53 0.54 0.54 0.39 0.45 0.28 0.04-0.01
VEL11000.0-0.01 0.01-0.01 0.01 0.03
VEL11000.0
CAL21000.0      95.58      3.3
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0      97.84      653.7
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ
[]

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RUN                                MID                                TRANSECT 3
IOC      1101100100001000101000
QARD 3.3
QARD 5.0
QARD 8.0
QARD 12.0
QARD 20.0
QARD 30.0
QARD 40.0
QARD 49.6
QARD 60.0
QARD 70.0
QARD 80.0
QARD 90.0
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 200.0
QARD 220.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 500.0
QARD 600.0
QARD 653.7
XSEC1000.0      0.00 1.0      92.69      0.00012
1000.0 -4.7100.0 12.0 99.1 12.4 99.6 14.0 99.6 14.4 99.3 15.2 98.8
1000.0 17.9 98.7 18.6 99.8 20.3 98.0 22.0 97.5 23.0 97.4 24.0 97.4
1000.0 25.0 97.3 26.0 97.3 27.2 96.9 28.0 96.7 29.0 96.8 30.0 96.9
1000.0 30.8 98.0 31.8 97.4 31.9 96.4 33.0 96.5 35.5 93.8 36.8 93.9
1000.0 45.0 92.8 47.0 92.7 49.0 93.4 51.0 93.4 53.0 92.9 55.0 92.7
1000.0 57.0 92.7 59.0 93.1 61.0 93.3 63.0 93.6 65.0 93.6 67.0 93.9
1000.0 69.0 94.0 71.0 94.1 73.0 94.2 75.0 94.5 77.0 94.6 79.0 94.7
1000.0 81.0 95.0 83.0 95.3 84.0 95.6 85.0 96.1 85.8 96.6 86.0 97.0
1000.0 86.7 97.2 89.0 97.9 91.0 98.2 93.0 98.5 95.0 98.8 98.0 99.3
1000.0101.0 99.9104.0100.4107.0101.1111.0101.9115.0102.7119.0103.1
1000.0123.2103.7
NS 1000.0      7.1      7.1      7.1      7.1      7.1      7.1
NS 1000.0      7.1      7.1      7.1      7.1      7.1      7.1
NS 1000.0      7.7      7.7      7.7      7.7      7.7      7.7
NS 1000.0      7.7      7.7      7.7      7.7      7.1      8.8
NS 1000.0      8.7 .2      8.7      8.7 .15      8.7      6.8      6.8
NS 1000.0      6.8      6.8      6.8      6.8      6.8      .035      6.8
NS 1000.0 .036      6.8      6.8 .08      6.8 0.1      8.9 0.15      8.9 0.2      8.9
NS 1000.0 0.2      9.8 0.2      9.8 0.2      1.3 0.2      1.3 0.2      1.3 0.2      1.3
NS 1000.0      1.3      1.3      1.3      1.3      1.3      1.3
NS 1000.0      1.3      1.3      1.3      1.3      1.3      1.3
NS 1000.0      1.3
WSL 1000.0      95.59      95.72      95.88      96.03      96.22      96.38
WSL 1000.0      96.50      96.59      96.67      96.74      96.80      96.85
WSL 1000.0      96.90      96.94      96.98      97.02      97.06      97.09
WSL 1000.0      97.12      97.15      97.18      97.23      97.28      97.34
WSL 1000.0      97.43      97.52      97.60      97.72      97.82      97.87
CAL11000.0      96.59      49.6
VEL11000.0
VEL11000.0
VEL11000.0      0.01 0.01 0.10 0.11
VEL11000.0 0.18 0.11 0.20 0.09 0.35 0.52 0.41 0.89 0.78 0.80 0.81 1.38
VEL11000.0 1.02 0.71 0.22 0.06-0.08-0.10-0.06-0.03 0.04-0.01 0.00
VEL11000.0
VEL11000.0
CAL21000.0      95.60      3.3
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0      97.84      653.7
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

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Sycane River SY_4 06/26/93

RUN	MID												
PARD	30	1.00	0	1.000									
QARD	3.3	95.59		2.000	2.000								
QARD	5.0	95.72		1.800	1.800								
QARD	8.0	95.88		1.590	1.590								
QARD	12.0	96.03		1.430	1.430								
QARD	20.0	96.22		1.250	1.250								
QARD	30.0	96.38		1.130	1.130								
QARD	40.0	96.50		1.050	1.050								
QARD	49.6	96.59		1.000	1.000								
QARD	60.0	96.67		0.940	0.940								
QARD	70.0	96.74		0.900	0.900								
QARD	80.0	96.80		0.870	0.870								
QARD	90.0	96.85		0.850	0.850								
QARD	100.0	96.90		0.820	0.820								
QARD	110.0	96.94		0.800	0.800								
QARD	120.0	96.98		0.780	0.780								
QARD	130.0	97.02		0.770	0.770								
QARD	140.0	97.06		0.750	0.750								
QARD	150.0	97.09		0.740	0.740								
QARD	160.0	97.12		0.730	0.730								
QARD	170.0	97.15		0.720	0.720								
QARD	180.0	97.18		0.710	0.710								
QARD	200.0	97.23		0.690	0.690								
QARD	220.0	97.28		0.670	0.670								
QARD	250.0	97.34		0.650	0.650								
QARD	300.0	97.43		0.620	0.620								
QARD	350.0	97.51		0.590	0.590								
QARD	400.0	97.59		0.570	0.570								
QARD	500.0	97.71		0.540	0.540								
QARD	600.0	97.81		0.510	0.510								
QARD	653.7	97.86		0.500	0.500								
FFFFTTTT													
133.5	-5.0	99.4	-3.0	99.0	0.0	98.4	2.0	98.2	3.0	97.8	4.0	97.5	**
133.5	5.0	96.8	5.5	96.6	6.0	96.4	7.0	96.0	9.0	93.9	11.0	93.2	
133.5	13.0	93.1	15.0	93.0	17.0	92.9	19.0	93.0	21.0	92.7	23.0	92.6	
133.5	25.0	92.6	27.0	92.7	29.0	92.6	31.0	92.7	33.0	93.0	35.0	93.2	
133.5	37.0	93.5	39.0	93.6	41.0	93.8	43.0	93.9	45.0	94.0	47.0	94.2	
133.5	49.0	94.2	51.0	94.5	53.0	94.7	55.0	94.8	57.0	95.0	59.0	94.8	
133.5	61.0	95.1	63.0	95.3	64.0	95.5	65.0	95.7	65.5	95.9	65.9	97.3	
133.5	66.7	97.9	68.0	98.1	69.7	98.1	73.0	98.6	76.0	99.0	80.0	99.7	
133.5	85.0	100.8	88.0	101.3									
133.5	0.05	-5.0	0.05	-3.0	0.05	0.0	0.05	2.0					*
133.5	0.05	3.0	0.05	4.0	0.05	5.0	0.05	5.5					*
133.5	0.05	6.0	0.05	7.0	0.05	9.0	0.05	11.0					*
133.5	0.05	13.0	0.05	15.0	0.05	17.0	0.05	19.0					*
133.5	0.05	21.0	0.05	23.0	0.05	25.0	0.05	27.0					*
133.5	-0.05	29.0	0.05	31.0	0.05	33.0	0.05	35.0					*
133.5	0.05	37.0	0.05	39.0	0.05	41.0	0.05	43.0					*
133.5	0.05	45.0	0.05	47.0	0.05	49.0	0.05	51.0					*
133.5	0.05	53.0	0.05	55.0	0.05	57.0	0.05	59.0					*
133.5	0.05	61.0	0.05	63.0	0.05	64.0	0.05	65.0					*
133.5	0.05	65.5	0.05	65.9	0.05	66.7	0.05	68.0					*
133.5	0.05	69.7	0.05	73.0	0.05	76.0	0.05	80.0					*
133.5	0.05	85.0	0.05	88.0									*
189.7	-4.7	100.0	12.0	99.1	12.4	99.6	14.0	99.6	14.4	99.3	15.2	98.8	
189.7	17.9	98.7	18.6	99.8	20.3	98.0	22.0	97.5	23.0	97.4	24.0	97.4	
189.7	25.0	97.3	26.0	97.3	27.2	96.9	28.0	96.7	29.0	96.8	30.0	96.9	
189.7	30.8	98.0	31.8	97.4	31.9	96.4	33.0	96.5	35.5	93.8	36.8	93.9	
189.7	45.0	92.8	47.0	92.7	49.0	93.4	51.0	93.4	53.0	92.9	55.0	92.7	
189.7	57.0	92.7	59.0	93.1	61.0	93.3	63.0	93.6	65.0	93.6	67.0	93.9	
189.7	69.0	94.0	71.0	94.1	73.0	94.2	75.0	94.5	77.0	94.6	79.0	94.7	
189.7	81.0	95.0	83.0	95.3	84.0	95.6	85.0	96.1	85.8	96.6	86.0	97.0	
189.7	86.7	97.2	89.0	97.9	91.0	98.2	93.0	98.5	95.0	98.8	98.0	99.3	
189.7	101.0	99.9	104.0	100.0	107.0	101.0	111.0	101.0	115.0	102.0	119.0	103.0	
189.7	123.0	2103.7											
189.7	0.05	-4.7	0.05	12.0	0.05	12.4	0.05	14.0					*
189.7	0.05	14.4	0.05	15.2	0.05	17.9	0.05	18.6					*
189.7	0.05	20.3	0.05	22.0	0.05	23.0	0.05	24.0					*
189.7	0.05	25.0	0.05	26.0	0.05	27.2	0.05	28.0					*
189.7	0.05	29.0	0.05	30.0	0.05	30.8	0.05	31.8					*
189.7	0.05	31.9	0.05	33.0	0.05	35.5	0.05	36.8					*
189.7	0.05	45.0	-0.05	47.0	0.05	49.0	0.05	51.0					*
189.7	0.05	53.0	0.05	55.0	0.05	57.0	0.05	59.0					*
189.7	0.05	61.0	0.05	63.0	0.05	65.0	0.05	67.0					*
189.7	0.05	69.0	0.05	71.0	0.05	73.0	0.05	75.0					*
189.7	0.05	77.0	0.05	79.0	0.05	81.0	0.05	83.0					*
189.7	0.05	84.0	0.05	85.0	0.05	85.8	0.05	86.0					*
189.7	0.05	86.7	0.05	89.0	0.05	91.0	0.05	93.0					*
189.7	0.05	95.0	0.05	98.0	0.05	101.0	0.05	104.0					*
189.7	0.05	107.0	0.05	111.0	0.05	115.0	0.05	119.0					*
189.7	0.05	123.0											*

ENDJ
ENDR