5-17-1993

Ex. 279-US-422

Unknown

Stream: Sycan River
Site: SY-1 (Sycan River above Snake Creek)
Date: 5/17/1993
Habitat: Run **Flow:** High

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	5.2	105.2		
TR1			6.71	98.49
TR2			6.24	98.96
TR3			7.64	97.56
TP TR3	7.92	105.48		
TR2			6.51	98.97
TR1			6.99	98.49

Comment: didn't shoot back to BM to close the loop. But the partial loop still appeared sufficient to QA/QC the accuracy of the pins.

(2) Water Surface Elevation (WSE) Survey

	L/R WSE	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE	585	105.20	10.09	0.00	95.11	95.08	
	RWE			10.15	0.00	95.05		
TR2	LWE	821.6	105.20	10.06	0.00	95.14	95.15	
	RWE			10.04	0.00	95.16		
TR3	LWE	942.6	105.20	10.02	0.00	95.18	95.18	555.0
	RWE			10.02	0.00	95.18		
							Ave Q=	555.0

Note:
WSE slope= 0.028%

Date: #######
Habitat: Run **Flow:** Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	5.41	105.41		
TR1			6.94	98.47
TR2			6.47	98.94
TR3			7.85	97.56
TP TR3	7.86	105.42		
TR2			6.46	98.96
TR1			6.95	98.47
BM			5.43	99.99

Comment:

(2) Water Surface Elevation (WSE) Survey

	L/R WSE	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE	585	105.42	13.85	0.00	91.57	91.55	58.0
	RWE			13.9	0.00	91.52		
TR2	LWE	821.6	105.42					
	RWE							
TR3	LWE	942.6	105.42	13.78	0.00	91.64	91.63	58.9
	RWE			13.8	0.00	91.62		
							Ave Q=	58.4

Note: no TR-2 WSE or Transect profile
WSE slope= 0.024%

Date: 9/13/1993
Habitat: Run **Flow:** Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	5.57	105.57		
TR1			7.1	98.47
TR2			6.62	98.95
TR3			8.02	97.55
TP TR3	6.56	104.11		
TR2			5.18	98.93
TR1			5.63	98.48
BM			4.11	100.00

Comment:

(2) Water Surface Elevation (WSE) Survey

	L/R WSE	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE	585	104.11	13.41	0.00	90.70	90.71	7.1
	RWE			13.4	0.00	90.71		
TR2	LWE	821.6	104.11	13.29	0.00	90.82	90.82	7.9
	RWE			13.29	0.00	90.82		
TR3	LWE	942.6	104.11	13.3	0.00	90.81	90.83	
	RWE			13.27	0.00	90.84		
							Ave Q=	7.5

Note:
WSE slope= 0.034%

Stream: Sycan River
Site: SY-1
Transect: 1
Habitat: Run

Survey Date	HI (ft)	Q (cfs)
5/17/1993	105.20	
6/27/1993	105.42	58.0
9/13/1993	104.11	7.1

17-May-93

	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-93

	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
RWP	0.0	7.61	97.81						3.1
	3.0	7.47	97.95						3.1
	6.0	7.78	97.64						3.1
	9.0	8.08	97.34						3.3
	11.0	7.98	97.44						3.3
	13.0	7.47	97.95						3.3
	15.0	7.12	98.30						3.3
	17.0	7.69	97.73						3.3
	19.0	8.44	96.98						3.3
	21.0	9.15	96.27						3.3
	23.0	9.80	95.62						3.3
	26.0	10.93	94.49						3.3
	29.0	12.09	93.33						3.3
	32.0	12.60	92.82						3.3
	35.0	12.60	92.82						3.3
	38.0	12.78	92.64						3.3
	41.0	12.70	92.72						3.3
	44.0	12.79	92.63						3.3
	47.0	12.83	92.59						3.3
	50.0	12.80	92.62						3.3
	53.0	12.76	92.66						3.3
	56.0	12.92	92.50						3.3
	59.0	13.05	92.37						3.3
	62.0	13.25	92.17						3.3
	64.5	13.42	92.00						3.3
	67.1	13.90	91.52						3.3
RWE	67.5		91.55	0.00	0.00		0.00	0.00	3.3
	68.0		91.45	0.10	0.18		0.18	0.02	3.3
	69.5		91.15	0.40	0.46		0.46	0.28	3.3
	71.0		90.90	0.65	0.57		0.57	0.56	3.3
	72.5		90.60	0.95	0.53		0.53	0.76	3.5
	74.0		90.20	1.35	0.69		0.69	1.40	3.5
	75.5		89.75	1.80	0.63		0.63	1.70	3.5
	77.0		89.45	2.10	0.82		0.82	2.58	3.5
	78.5		89.35	2.20	1.09		1.09	3.60	3.5
	80.0		89.45	2.10	1.11		1.11	3.50	3.5
	81.5		89.45	2.10	0.92		0.92	2.90	3.5
	83.0		89.35	2.20	1.21		1.21	3.99	3.5
	84.5		89.35	2.20	1.29		1.29	4.26	3.5
	86.0		89.30	2.25	0.98		0.98	3.31	3.5
	87.5		89.35	2.20	1.24		1.24	4.09	3.5
	89.0		89.45	2.10	1.52		1.52	4.79	3.5
	90.5		89.45	2.10	1.32		1.32	4.16	3.5
	92.0		89.35	2.20	1.27		1.27	4.19	3.5
	93.5		89.35	2.20	0.77		0.77	2.54	3.5
	95.0		89.45	2.10	1.27		1.27	4.00	3.5
	96.5		89.65	1.90	1.08		1.08	3.08	3.5
	98.0		89.65	1.90	0.40		0.40	1.14	3.5
	99.5		90.25	1.30	0.42		0.42	0.82	3.5
	101.0		90.55	1.00	0.20		0.20	0.25	3.5
	102.0		91.05	0.50	0.11		0.11	0.06	3.5
LWE	103.1		91.55	0.00	0.00		0.00	0.00	3.1
	103.3	13.85	91.57						3.1
	104.8	12.90	92.52						3.1
	105.8	11.92	93.50						3.1
	107.0	11.22	94.20						3.1
	108.1	10.60	94.82						3.1
	109.2	6.50	98.92						3.1
	110.3	5.33	100.09						3.1
	111.5	5.18	100.24						3.1
	113.5	5.18	100.24						3.1
LWP	114.9	5.13	100.29						3.1
	124.9	4.66	100.76						3.1

13-Sep-93

	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
LEW	13.5		90.71	0.00	0.00		0.00	0.00	3.5
58	14.0		90.51	0.20	-0.07		-0.07	-0.01	3.5
	15.0		90.36	0.35	-0.01		-0.01	0.00	3.5
	16.0		90.31	0.40	-0.01		-0.01	0.00	3.5
	17.0		89.66	1.05	0.02		0.02	0.02	3.5
	18.0		89.71	1.00	0.20		0.20	0.20	3.5
	19.0		90.01	0.70	0.47		0.47	0.33	3.5
	20.0		89.51	1.20	0.13		0.13	0.16	3.5
	21.0		89.46	1.25	0.12		0.12	0.19	3.5
	22.5		89.51	1.20	0.09		0.09	0.16	3.5
	24.0		89.56	1.15	0.63		0.63	1.09	3.5
	25.5		89.41	1.30	0.49		0.49	0.96	3.5
	27.0		89.46	1.25	0.55		0.55	1.03	3.5
	28.5		89.46	1.25	0.34		0.34	0.53	3.5
	29.5		89.41	1.30	0.37		0.37	0.48	3.5
	30.5		89.36	1.35	0.44		0.44	0.74	3.5
	32.0		89.36	1.35	0.31		0.31	0.63	3.5
	33.5		89.46	1.25	-0.01		-0.01	-0.02	3.5
	35.0		89.51	1.20	0.01		0.01	0.02	3.5
	36.5		89.51	1.20	0.04		0.04	0.07	3.5
	38.0		89.56	1.15	0.05		0.05	0.09	3.5
	39.5		89.86	0.85	0.29		0.29	0.37	3.5
	41.0		90.26	0.45	0.11		0.11	0.09	3.5
RWE	43.0		90.71	0.00	0.00		0.00	0.00	3.5

Stream:	Sycan River	
Site:	SY-1	
Transect:	2	
Habitat:	Run	
Survey	HI	Q
Date	(ft)	(cfs)
5/17/1993	105.20	
6/27/1993	105.42	
9/13/1993	104.11	7.9

17-May-93									
	Sta	FS	Ground	Depth	Vel (ft/s)			q	
	(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate

27-Jun-93									
	Sta	FS	Ground	Depth	Vel (ft/s)			q	
	(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate

13-Sep-93									
	Sta	FS	Ground	Depth	Vel (ft/s)			q	
	(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate
LWP	0.0	7.22	98.1						1.1
	2.3	8.00	97.4						1.1
	2.8	9.25	96.1						1.1
	10.0	11.32	94.0						1.1
	10.5	13.42	91.9						1.1
LEW	12.0		90.82	0.00	0.00		0.00	0.00	3.9
	13.0		89.82	1.00	0.01		0.01	0.01	3.9
	14.5		89.52	1.30	0.02		0.02	0.04	3.9
	16.0		89.82	1.00	0.22		0.22	0.33	3.9
	17.5		89.42	1.40	0.02		0.02	0.04	3.9
	19.0		89.62	1.20	0.04		0.04	0.07	3.9
	20.5		89.37	1.45	0.01		0.01	0.02	3.9
	22.0		89.32	1.50	0.03		0.03	0.07	3.9
	23.5		89.27	1.55	0.01		0.01	0.02	3.9
	25.0		89.27	1.55	0.01		0.01	0.02	3.9
	26.5		89.22	1.60	0.23		0.23	0.55	3.9
	28.0		89.27	1.55	0.39		0.39	0.91	3.9
	29.5		89.32	1.50	0.42		0.42	0.95	3.9
	31.0		89.32	1.50	0.34		0.34	0.77	3.9
	32.5		89.32	1.50	0.35		0.35	0.79	3.9
	34.0		89.27	1.55	0.33		0.33	0.77	3.9
	35.5		89.27	1.55	0.22		0.22	0.51	3.9
	37.0		89.32	1.50	0.18		0.18	0.41	3.9
	38.5		89.42	1.40	0.14		0.14	0.29	3.9
	40.0		89.42	1.40	0.17		0.17	0.36	3.9
	41.5		89.42	1.40	0.08		0.08	0.17	3.9
	43.0		89.47	1.35	0.05		0.05	0.10	3.9
	44.5		89.47	1.35	0.12		0.12	0.24	3.9
	46.0		89.42	1.40	0.12		0.12	0.25	3.9
	47.5		89.52	1.30	0.08		0.08	0.16	3.9
	49.0		89.57	1.25	0.04		0.04	0.08	3.9
	50.5		89.87	0.95	-0.01		-0.01	-0.01	3.9
	52.0		90.27	0.55	-0.02		-0.02	-0.01	3.9
RWE	53.2		90.47	0.35	0.01		0.01	0.00	3.9
	58.0	11.51	93.85						1.1
	77.8	10.20	95.16						1.1
	82.0	7.95	97.41						1.1
RWP	88.2	6.39	98.97						1.1

Stream:	Sycan River	
Site:	SY-1	
Transect:	3	
Habitat:	Run	

Survey Date	HI (ft)	Q (cfs)
5/17/1993	105.20	555.0
6/27/1993	105.42	58.9
9/13/1993	104.11	

17-May-93

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
6.5		95.18	0.00	0.00		0.00	0.00	2.2
8.0		94.38	0.80	0.02		0.02	0.04	2.3
11.0		92.88	2.30	0.79		0.79	5.72	2.3
14.3		89.98	5.20	1.33	0.65	0.99	12.87	2.3
16.0		90.28	4.90	1.54	1.37	1.46	16.75	2.3
19.0		89.78	5.40	1.67	1.49	1.58	21.33	2.3
21.0		89.78	5.40	1.89	1.33	1.61	21.74	2.3
24.0		89.78	5.40	1.95	1.74	1.85	29.89	2.3
27.0		89.78	5.40	2.27	1.74	2.01	32.48	2.3
30.0		89.88	5.30	2.58	2.05	2.32	36.81	2.3
33.0		89.88	5.30	2.89	2.38	2.64	41.90	2.3
36.0		89.98	5.20	2.87	2.49	2.68	41.81	2.3
39.0		90.08	5.10	3.12	2.24	2.68	41.00	2.3
42.0		90.08	5.10	3.14	2.46	2.80	42.84	2.3
45.0		90.18	5.00	3.09	2.52	2.81	42.08	2.3
48.0		90.18	5.00	2.98	2.91	2.95	44.18	2.3
51.0		90.38	4.80	2.84	2.17	2.51	36.07	2.3
54.0		90.38	4.80	2.42	2.12	2.27	32.69	2.3
57.0		90.38	4.80	2.04	1.27	1.66	23.83	2.3
60.0		91.08	4.10	1.65	0.15	0.90	11.07	2.3
63.0		91.58	3.60	1.37	0.01	0.69	7.45	2.3
66.0		92.13	3.05	1.12	0.20	0.66	6.04	2.3
69.0		92.68	2.50	0.82	0.34	0.58	4.35	2.3
72.0		93.33	1.85	0.33		0.33	1.83	2.3
75.0		93.78	1.40	0.06		0.06	0.25	2.3
78.0		95.18	0.00	0.00		0.00	0.00	2.3

27-Jun-93

	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
RWP	0.0	8.55	96.87						2.3
	2.0	8.98	96.44						2.3
	3.6	9.35	96.07						2.3
	4.6	10.03	95.39						2.3
	6.0	10.45	94.97						2.3
	7.3	10.95	94.47						2.3
	9.0	11.74	93.68						2.3
	11.0	11.94	93.48						2.3
	13.0	12.05	93.37						2.3
	15.0	12.67	92.75						2.3
	17.0	13.20	92.22						2.3
RWE	19.5		91.53	0.10	0.00		0.00	0.00	2.3
	20.0		91.48	0.15	-0.07		-0.07	-0.01	2.3
	21.0		91.33	0.30	-0.02		-0.02	-0.01	2.3
	22.0		91.23	0.40	0.01		0.01	0.01	2.3
	24.0		90.63	1.00	0.03		0.03	0.06	2.3
	26.0		90.43	1.20	0.32		0.32	0.77	2.3
	28.0		90.43	1.20	0.56		0.56	1.34	2.3
	30.0		90.38	1.25	0.67		0.67	1.68	2.3
	32.0		90.28	1.35	0.64		0.64	1.73	2.3
	34.0		90.28	1.35	0.64		0.64	1.73	2.3
	36.0		90.18	1.45	0.73		0.73	2.12	2.3
	38.0		90.13	1.50	0.77		0.77	2.31	2.3
	40.0		90.13	1.50	0.86		0.86	2.58	2.3
	42.0		90.03	1.60	0.90		0.90	2.88	2.3
	44.0		90.03	1.60	1.07		1.07	3.42	2.3
	46.0		89.98	1.65	1.01		1.01	3.33	2.3
	48.0		89.93	1.70	1.07		1.07	3.64	2.3
	50.0		89.88	1.75	1.10		1.10	3.85	2.3
	52.0		89.88	1.75	1.01		1.01	3.54	2.3
	54.0		89.88	1.75	1.12		1.12	3.92	2.3
	56.0		89.88	1.75	1.07		1.07	3.75	2.3
	58.0		89.83	1.80	1.00		1.00	3.60	2.3
	60.0		89.78	1.85	0.98		0.98	3.63	2.3
	62.0		89.83	1.80	0.66		0.66	2.38	2.3
	64.0		89.83	1.80	0.71		0.71	2.56	2.3
	66.0		89.83	1.80	0.74		0.74	2.66	2.3
	68.0		89.68	1.95	0.46		0.46	1.35	2.3
	69.0		89.88	1.75	0.09		0.09	0.09	2.3
LWE	69.1		91.63	0.00	0.00		0.00	0.00	2.3
	69.6	15.06	90.36						2.3
	70.0	13.43	91.99						2.3
	72.0	12.69	92.73						2.3
	74.0	12.11	93.31						2.3
	75.3	11.65	93.77						2.3
	75.6	11.02	94.40						2.3
	77.0	10.14	95.28						2.2
	78.3	9.37	96.05						2.2
	79.9	8.67	96.75						2.2
	81.7	7.15	98.27						2.2
LWP	82.7	5.67	99.75						2.2
	83.4	5.45	99.97						2.2

13-Sep-93

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

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        Sycane  River SY10 06/27/93
RUN                          MID                                    TRANSECT 1
IOC       1101100100001000101000
QARD   7.5
QARD  10.0
QARD  20.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  58.4
QARD  70.0
QARD  80.0
QARD  90.0
QARD 100.0
QARD 120.0
QARD 140.0
QARD 160.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 240.0
QARD 270.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 450.0
QARD 500.0
QARD 555.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 770.0
QARD 856.0
XSEC1000.0      0.00 1.0     90.38   0.00024
    1000.0  0.0 97.8  3.0 98.0  6.0 97.6  9.0 97.3 11.0 97.4 13.0 98.0
    1000.0 15.0 98.3 17.0 97.7 19.0 97.0 21.0 96.3 23.0 95.6 26.0 94.5
    1000.0 29.0 93.3 32.0 92.8 35.0 92.8 38.0 92.6 41.0 92.7 44.0 92.6
    1000.0 47.0 92.6 50.0 92.6 53.0 92.7 56.0 92.5 59.0 92.4 62.0 92.2
    1000.0 64.5 92.0 67.1 91.5 67.5 91.5 68.0 91.4 69.5 91.1 71.0 90.9
    1000.0 72.5 90.6 74.0 90.2 75.5 89.7 77.0 89.4 78.5 89.3 80.0 89.4
    1000.0 81.5 89.4 83.0 89.3 84.5 89.3 86.0 89.3 87.5 89.3 89.0 89.4
    1000.0 90.5 89.4 92.0 89.3 93.5 89.3 95.0 89.4 96.5 89.6 98.0 89.6
    1000.0 99.5 90.2101.0 90.5102.0 91.0103.1 91.5103.3 91.6104.8 92.5
    1000.0105.8 93.5107.0 94.2108.1 94.8109.2 98.9110.3100.1111.5100.2
    1000.0113.5100.2114.9100.3124.9100.8
NS  1000.0       3.1       3.1       3.1       3.3       3.3       3.3
NS  1000.0       3.3       3.3       3.3       3.3       3.3       3.3
NS  1000.0       3.3       3.3       3.3       3.3       3.3       3.3
NS  1000.0       3.3       3.3       3.3       3.3       3.3 .055  3.3
NS  1000.0 .050  3.3 .045  3.3       3.3       3.3       3.3       3.3
NS  1000.0       3.5       3.5       3.5       3.5       3.5       3.5
NS  1000.0       3.5       3.5       3.5       3.5       3.5       3.5
NS  1000.0       3.5       3.5       3.5       3.5       3.5       3.5
NS  1000.0       3.5       3.5       3.5       3.1       3.1       3.1
NS  1000.0       3.1       3.1       3.1       3.1       3.1       3.1
NS  1000.0       3.1       3.1       3.1
WSL 1000.0     90.71     90.77     90.98     91.16     91.31     91.44
WSL 1000.0     91.55     91.75     91.91     92.06     92.38     92.58
WSL 1000.0     93.04     93.19     93.32     93.45     93.57     93.68
WSL 1000.0     93.84     94.00     94.24     94.46     94.68     94.88
WSL 1000.0     95.09     95.25     95.42     95.59     95.82     96.08
CAL11000.0     91.55      58.4
VEL11000.0
VEL11000.0
VEL11000.0           0.00 0.18 0.46 0.57 0.53 0.69 0.63 0.82 1.09 1.11
VEL11000.0 0.92 1.21 1.29 0.98 1.24 1.52 1.32 1.27 0.77 1.27 1.08 0.40
VEL11000.0 0.42 0.20 0.11 0.00
VEL11000.0
CAL21000.0     90.71       7.5
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0     95.08     555.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ
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        Sycane  River SY10 06/27/93
RUN                          LOW                                    TRANSECT 2
IOC       1101100100001000101000
QARD   7.5
QARD  10.0
QARD  20.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  58.4
QARD  70.0
QARD  80.0
QARD  90.0
QARD 100.0
QARD 120.0
QARD 140.0
QARD 160.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 240.0
QARD 270.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 450.0
QARD 500.0
QARD 555.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 770.0
QARD 856.0
XSEC1000.0      0.00 1.0     90.38   0.00034
    1000.0  0.0 98.1  2.3 97.4  2.8 96.1 10.0 94.0 10.5 91.9 12.0 90.8
    1000.0 13.0 89.8 14.5 89.5 16.0 89.8 17.5 89.4 19.0 89.6 20.5 89.4
    1000.0 22.0 89.3 23.5 89.3 25.0 89.3 26.5 89.2 28.0 89.3 29.5 89.3
    1000.0 31.0 89.3 32.5 89.3 34.0 89.3 35.5 89.3 37.0 89.3 38.5 89.4
    1000.0 40.0 89.4 41.5 89.4 43.0 89.5 44.5 89.5 46.0 89.4 47.5 89.5
    1000.0 49.0 89.6 50.5 89.9 52.0 90.3 53.2 90.5 58.0 93.9 77.8 95.2
    1000.0 82.0 97.4 88.2 99.0
NS  1000.0       1.1       1.1       1.1       1.1       1.1       3.9
NS  1000.0 .4    3.9 .4    3.9       3.9 .18   3.9 .18   3.9 .18   3.9
NS  1000.0 0.18  3.9 0.18  3.9 0.18  3.9       3.9       3.9       3.9
NS  1000.0       3.9       3.9       3.9       3.9       3.9       3.9
NS  1000.0 .2    3.9 .2    3.9 .3    3.9       3.9       3.9       3.9
NS  1000.0 .4    3.9 .5    3.9 .5    3.9 .5    3.9       1.1       1.1
NS  1000.0       1.1       1.1
WSL 1000.0     90.81     90.85     91.09     91.27     91.40     91.52
WSL 1000.0     91.62     91.83     91.99     92.14     92.45     92.66
WSL 1000.0     93.10     93.25     93.39     93.52     93.64     93.76
WSL 1000.0     93.92     94.08     94.32     94.53     94.75     94.95
WSL 1000.0     95.15     95.31     95.47     95.64     95.87     96.12
CAL11000.0     90.82       7.5
VEL11000.0                          0.00 0.01 0.02 0.22 0.02 0.04 0.01
VEL11000.0 0.03 0.01 0.01 0.23 0.39 0.42 0.34 0.35 0.33 0.22 0.18 0.14
VEL11000.0 0.17 0.08 0.05 0.12 0.12 0.08 0.04-0.01-0.02 0.01
VEL11000.0
CAL21000.0     90.82      7.51
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0     95.15     555.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ
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        Sycane  River SY10 06/27/93
RUN                          MID                                    TRANSECT 3
IOC       11011001000010001010000
QARD   7.5
QARD  10.0
QARD  20.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  58.4
QARD  70.0
QARD  80.0
QARD  90.0
QARD 100.0
QARD 120.0
QARD 140.0
QARD 160.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 240.0
QARD 270.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 450.0
QARD 500.0
QARD 555.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 770.0
QARD 856.0
XSEC1000.0      0.00 1.0     90.38   0.00024
    1000.0  0.0 96.9  2.0 96.4  3.6 96.1  4.6 95.4  6.0 95.0  7.3 94.5
    1000.0  9.0 93.7 11.0 93.5 13.0 93.4 15.0 92.8 17.0 92.2 19.5 91.5
    1000.0 20.0 91.5 21.0 91.3 22.0 91.2 24.0 90.6 26.0 90.4 28.0 90.4
    1000.0 30.0 90.4 32.0 90.3 34.0 90.3 36.0 90.2 38.0 90.1 40.0 90.1
    1000.0 42.0 90.0 44.0 90.0 46.0 90.0 48.0 89.9 50.0 89.9 52.0 89.9
    1000.0 54.0 89.9 56.0 89.9 58.0 89.8 60.0 89.8 62.0 89.8 64.0 89.8
    1000.0 66.0 89.8 68.0 89.7 69.0 89.9 69.1 91.6 69.6 90.4 70.0 92.0
    1000.0 72.0 92.7 74.0 93.3 75.3 93.8 75.6 94.4 77.0 95.3 78.3 96.1
    1000.0 79.9 96.8 81.7 98.3 82.7 99.8 83.4100.0
NS  1000.0       2.3       2.3       2.3       2.3       2.3       2.3
NS  1000.0       2.3       2.3       2.3       2.3       2.3       2.3
NS  1000.0 0.2   2.3 0.2   2.3 0.2   2.3 0.2   2.3       2.3       2.3
NS  1000.0       2.3       2.3       2.3       2.3       2.3       2.3
NS  1000.0       2.3       2.3       2.3       2.3       2.3       2.3
NS  1000.0       2.3       2.3       2.3       2.3       2.3       2.3
NS  1000.0       2.3 0.08  2.3 0.09  2.3       2.3       2.3       2.3
NS  1000.0       2.3       2.3       2.3       2.3       2.2       2.2
NS  1000.0       2.2       2.2       2.2       2.2
WSL 1000.0     90.84     90.88     91.13     91.30     91.43     91.54
WSL 1000.0     91.64     91.84     92.01     92.16     92.46     92.67
WSL 1000.0     93.11     93.27     93.40     93.54     93.66     93.77
WSL 1000.0     93.94     94.10     94.34     94.56     94.78     94.98
WSL 1000.0     95.18     95.34     95.51     95.67     95.90     96.16
CAL11000.0     91.63      58.4
VEL11000.0                                                        0.00
VEL11000.0-0.07-0.02 0.01 0.03 0.32 0.56 0.67 0.64 0.64 0.73 0.77 0.86
VEL11000.0 0.90 1.07 1.01 1.07 1.10 1.01 1.12 1.07 1.00 0.98 0.66 0.71
VEL11000.0 0.74 0.46 0.09 0.00
VEL11000.0
CAL21000.0     90.83       7.5
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0     95.18     555.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ
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