

12-8-2009

Ex. 279-US-449

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Stream: Sycan River
 Site: SY-10 (Coyote Creek)

Date: 5/16/93
 Habitat: Run

Flow: High

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	6.29	106.29		
HP1			4.93	101.36
HP2			4.91	101.38
HP3			4.78	101.51
TP				
HP3	4.75	106.26		
HP2			4.89	101.37
HP1			4.91	101.35
BM			6.26	100.00

Comment:

Date: 6/27/93
 Habitat: Run

Flow: Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	6.55	106.55		
HP1			5.22	101.33
HP2			5.20	101.35
HP3			5.06	101.49
TP				
HP3	5.10	106.59		
HP2			5.14	101.45
HP1			5.26	101.33
BM			6.59	100.00

Comment:

Date: 9/19/93
 Habitat: Run

Flow: Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	5.41	105.41		
HP1			4.06	101.35
HP2			4.11	101.30
HP3			3.90	101.51
TP				
HP3	3.76	105.27		
HP2			3.96	101.31
HP1			3.92	101.35
BM			5.26	100.01

Comment:

(2) Water Surface Elevation (WSE) Survey

L/R	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	0	106.26 5.72 5.73	0.00 0.00 0.00	100.54 100.54 100.53	100.54	
TR2	LWE RWE	7.25	106.26 5.70	0.00 0.00	100.54 100.56	100.55	
TR3	LWE RWE	27.1	106.26 5.65 5.65	0.00 0.00 0.00	100.61 100.61 100.61	100.61	9.1

Note: WSE slope= 0.28%

Ave Q= 9.1

(2) Water Surface Elevation (WSE) Survey

L/R	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	0	106.59 7.40 7.42	0.00 0.00 0.00	99.19 99.17 99.17	99.18	1.6
TR2	LWE RWE	7.25	106.59 7.36 7.36	0.00 0.00 0.00	99.23 99.23 99.23	99.23	1.6
TR3	LWE RWE	27.1	106.59 7.35 7.34	0.00 0.00 0.00	99.24 99.25 99.25	99.25	1.7

Note: WSE slope= 0.24%

Ave Q= 1.62

(2) Water Surface Elevation (WSE) Survey

L/R	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWE RWE	0	105.27 6.15 6.15	0.00 0.00 0.00	99.12 99.12 99.12	99.12	0.9
TR2	LWE RWE	7.25	105.27 6.13 6.12	0.00 0.00 0.00	99.14 99.15 99.15	99.15	0.8
TR3	LWE RWE	27.1	105.27 6.11 6.10	0.00 0.00 0.00	99.16 99.17 99.17	99.17	0.6

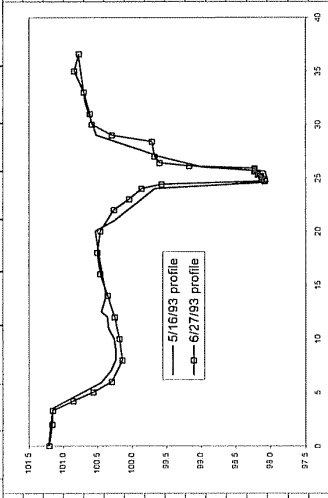
Note: WSE slope= 0.17%

Ave Q= 0.78

Stream: Sycan River
 Site: SY-10
 Transect: I
 Habitat: Run
 Survey HI Q
 Date (ft) (cfs)
 5/16/93 106.26
 6/27/93 106.59 1.57
 9/19/93 105.27 0.90

Sta	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)		q (cfs)	substrate
				V _{0.20/6}	V _{0.8}		
RWP	0.0	5.05	101.21				
	3.5	5.11	101.15				
RWE	5.9	5.82	100.44				
	7.0		100.31	0.23			
	8.0		100.24	0.30			
	9.0		100.24	0.30			
	10.0		100.26	0.28			
	11.0		100.34	0.20			
	12.0		100.36	0.18			
LWE	12.5	5.82	100.44				
	14.0	5.89	100.37				
	17.0	5.80	100.46				
RWE	20.0	5.73	100.53				
	21.0		100.26	0.28			
	24.0		99.67	0.87			
	24.6		98.04	2.50			
	25.6		98.08	2.46			
	26.0		98.98	1.56			
	27.0		99.61	0.93			
LWE	29.0	5.74	100.52				
	32.0	5.58	100.68				
LWP	36.5	5.48	100.78				

This is bed profile surveyed on 5/16/93. Q measurement was conducted at a separate transect about 70ft upstream of TR-3. (see TR-3)



Sta	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)		q (cfs)	substrate
				V _{0.20/6}	V _{0.8}		
RWP	0.0	5.39	101.20				
	2.0	5.43	101.16				
	3.3	5.44	101.15				
	4.2	5.74	100.85				
	5.0	6.03	100.56				
	6.0	6.30	100.29				
	8.0	6.45	100.14				
	10.0	6.41	100.18				
	12.0	6.34	100.25				
	14.0	6.24	100.35				
	16.0	6.13	100.46				
	18.0	6.09	100.50				
	20.0	6.13	100.46				
	22.0	6.33	100.26				
	23.0	6.55	100.04				
	24.0	6.73	99.86				
	24.4	7.02	99.57				
RWE	24.7		98.08	1.10	1.35	0.07	9.9
	24.8		98.08	1.10	1.31	0.14	9.9
	24.9		98.13	1.05	1.38	0.17	9.9
	25.0		98.13	1.05	1.64	0.17	9.9
	25.1		98.13	1.05	1.51	0.16	9.9
	25.2		98.13	1.05	1.48	0.16	9.5
	25.3		98.18	1.00	1.38	0.14	9.5
	25.4		98.18	1.00	1.28	0.13	9.5
	25.5		98.18	1.00	1.22	0.12	9.5
	25.6		98.23	0.95	1.12	0.11	9.5
	25.7		98.23	0.95	1.05	0.10	9.9
	25.8		98.23	0.95	0.79	0.07	9.9
LWE	25.9		98.23	0.95	0.56	0.03	9.9
	26.1	7.42	99.17				
	26.4	6.99	99.60				
	27.0	6.92	99.67				
	28.4	6.88	99.71				
	29.0	6.30	100.29				
	30.0	6.01	100.58				
	31.0	5.98	100.61				
	33.0	5.89	100.70				
	35.0	5.75	100.84				
LWP	36.6	5.82	100.77				

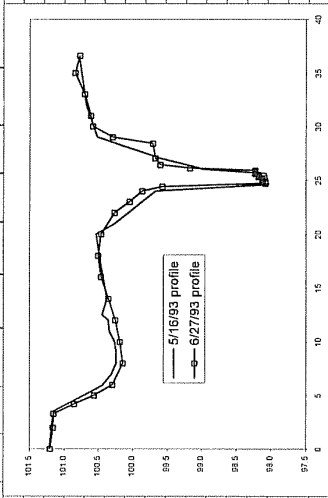
meters/sec was used in the field notes.

Sta	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)		q (cfs)	substrate
				V _{0.20/6}	V _{0.8}		
	0.0	4.05	101.22				
	2.0	4.11	101.16				
	3.3	4.09	101.18				
	4.2	4.29	100.98				
	5.0	4.61	100.66				
	6.0	4.89	100.38				
	8.0	5.10	100.17				
	10.0	5.07	100.20				
	12.0	5.04	100.23				
	14.0	4.90	100.37				
	16.0	4.79	100.48				
	18.0	4.73	100.54				
	20.0	4.83	100.44				
	22.0	5.07	100.20				
	23.0	5.21	100.06				
	24.0	5.40	99.87				
	24.4	5.58	99.69				
RWE	24.9	6.15	99.12	0.00	0.00	0.00	0.00
	25.0		98.12	1.00	0.61	0.61	0.06
	25.1		98.12	1.00	1.14	1.14	0.11
	25.2		98.12	1.00	1.25	1.25	0.13
	25.3		98.12	1.00	1.25	1.25	0.13
	25.4		98.12	1.00	1.31	1.31	0.13
	25.5		98.12	1.00	1.18	1.18	0.12
	25.6		98.12	1.00	0.92	0.92	0.09
	25.7		98.17	0.95	0.76	0.76	0.07
	25.8		98.17	0.95	0.70	0.70	0.07
LWE	25.9	6.15	99.12	0.00	0.00	0.00	0.00
	26.1	5.92	99.35				
	26.4	5.62	99.65				
	27.0	5.55	99.72				
	28.4	5.56	99.71				
	29.0	5.20	100.07				
	30.0	4.75	100.52				
	31.0	4.68	100.59				
	33.0	4.58	100.69				
	35.0	4.44	100.83				
	36.6	4.49	100.78				

Stream: Swan River				16-May-93				27-Jun-93				19-Sep-93			
Site: SY-10				Depth (ft)				Depth (ft)				Depth (ft)			
Transect: I				Vel (ft/s)				Vel (ft/s)				Vel (ft/s)			
Habitat: Run				V _{0.2/0.6}				V _{0.8}				V _{0.8}			
Sta	FS	Ground	Substrate	Sta	FS	Ground	Substrate	Sta	FS	Ground	Substrate	Sta	FS	Ground	Substrate
(ft)	(ft)	(ft)		(ft)	(ft)	(ft)		(ft)	(ft)	(ft)		(ft)	(ft)	(ft)	
RWP	0.0	5.05	101.21	RWP	0.0	5.39	101.20	RWP	0.0	4.05	101.22	RWP	0.0	4.05	101.22
	3.5	5.11	101.15		2.0	5.43	101.16		2.0	4.11	101.16		2.0	4.11	101.16
	7.0	5.82	100.44		3.3	5.44	101.15		3.3	4.09	101.18		3.3	4.09	101.18
	8.0	100.24	0.30		5.0	6.03	100.56		4.2	4.29	100.98		4.2	4.29	100.98
	9.0	100.24	0.30		6.0	6.30	100.29		5.0	4.61	100.66		5.0	4.61	100.66
	10.0	100.26	0.28		8.0	6.45	100.14		6.0	4.89	100.38		6.0	4.89	100.38
	11.0	100.34	0.20		10.0	6.41	100.18		8.0	5.10	100.17		8.0	5.10	100.17
	12.0	5.82	100.36		12.0	6.34	100.25		10.0	5.07	100.20		10.0	5.07	100.20
	14.0	5.89	100.37		14.0	6.24	100.35		12.0	5.04	100.23		12.0	5.04	100.23
	17.0	5.80	100.46		16.0	6.13	100.46		14.0	4.90	100.37		14.0	4.90	100.37
	20.0	5.73	100.53		18.0	6.09	100.50		16.0	4.79	100.48		16.0	4.79	100.48
	21.0	100.26	0.28		20.0	6.13	100.46		18.0	4.73	100.54		18.0	4.73	100.54
	24.0	99.67	0.87		22.0	6.33	100.26		20.0	4.87	100.44		20.0	4.87	100.44
	25.6	98.08	2.46		24.0	6.73	99.86		22.0	5.21	100.06		22.0	5.21	100.06
	26.0	98.98	1.56		24.4	7.02	99.57		24.0	5.40	99.87		24.0	5.40	99.87
	27.0	99.61	0.93		25.2	7.42	99.17		24.4	5.58	99.69		24.4	5.58	99.69
	LWE	29.0	5.74	100.52		25.2	98.13	1.05	1.51	1.35	0.07		25.2	98.13	1.05
	32.0	5.58	100.68		24.8	98.08	1.10	1.31	1.31	0.14	9.9		25.0	98.12	1.00
	LWP	36.5	5.48	100.78		24.9	98.08	1.10	1.58	1.58	0.17		25.1	98.12	1.00
					25.0	98.13	1.05	1.64	1.64	0.17	9.9		25.2	98.12	1.00
					25.1	98.13	1.05	1.51	1.51	0.16	9.9		25.3	98.12	1.00
					25.2	98.13	1.05	1.48	1.48	0.16	9.5		25.4	98.12	1.00
					25.3	98.18	1.00	1.38	1.38	0.14	9.5		25.5	98.12	1.00
					25.4	98.18	1.00	1.28	1.28	0.13	9.5		25.5	98.12	1.00
					25.5	98.18	1.00	1.22	1.22	0.12	9.5		25.6	98.12	1.00
					25.6	98.23	0.95	1.12	1.12	0.11	9.5		25.7	98.17	0.95
					25.7	98.23	0.95	1.05	1.05	0.10	9.9		25.7	98.17	0.95
					25.8	98.23	0.95	0.79	0.79	0.07	9.9		25.8	98.17	0.95
					LWE	25.9	98.23	0.95	0.56	0.03			LWE	25.9	98.12
					26.1	7.42	99.17		0.56	0.03			26.1	5.92	99.35
					26.4	6.99	99.60						26.4	5.62	99.65
					27.0	6.92	99.67						27.0	5.55	99.72
					28.4	6.88	99.71						28.4	5.56	99.71
					29.0	6.30	100.29						29.0	5.20	100.07
					30.0	6.01	100.58						30.0	4.75	100.52
					31.0	5.98	100.61						31.0	4.68	100.59
					33.0	5.89	100.70						33.0	4.58	100.69
					35.0	5.75	100.84						35.0	4.44	100.83
					LWP	36.6	5.82	100.77					LWP	36.6	4.49
															100.78

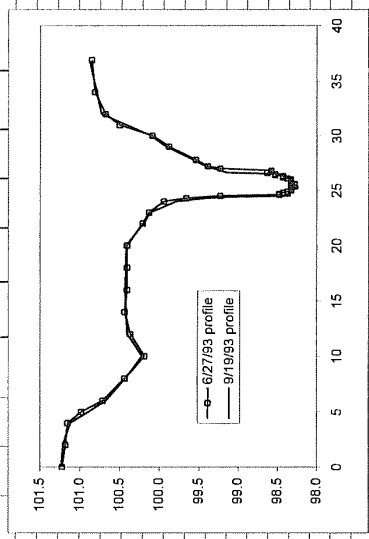
meters/sec was used in the field notes.

This is bed profile surveyed on 5/16/93. Q measurement was conducted at a separate transect about 70ft upstream of TR-3. (see TR-3)



Stream: Sycan River
 Site: SY-10
 Transect: 2
 Habitat: Run
 Survey Date: 5/16/93, 6/27/93, 9/19/93
 HI: 106.26, 106.59, 105.27
 Q: 1.62, 0.82

16-May-93			27-Jun-93			19-Sep-93								
Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	q (cfs)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	q (cfs)	substrate	
				V _{0.206}	V _{0.8}	Ave					V _{0.206}	V _{0.8}	Ave	
RWP	0.0	5.37	101.22											
	2.0	5.41	101.18											
	4.0	5.44	101.15											
	5.0	5.61	100.98											
	6.0	5.88	100.71											
	8.0	6.15	100.44											
	10.0	6.40	100.19											
	12.0	6.72	100.37											
	14.0	6.15	100.44											
	16.0	6.18	100.41											
	18.0	6.18	100.41											
	20.0	6.18	100.41											
	22.0	6.38	100.21											
	23.0	6.46	100.13											
	24.0	6.65	99.94											
	24.3	6.93	99.66											
RWE	24.5		99.23	0.00	0.00	0.00								
	24.6		98.48	0.75	0.03	0.03								
	24.7		98.48	0.75	0.03	0.03								
	24.8		98.43	0.80	0.13	0.13								
	24.9		98.38	0.85	0.62	0.62								
	25.0		98.33	0.90	0.92	0.92								
	25.1		98.33	0.90	1.05	1.05								
	25.2		98.33	0.90	1.05	1.05								
	25.3		98.33	0.90	1.25	1.25								
	25.4		98.33	0.90	1.61	1.61								
	25.5		98.28	0.95	1.54	1.54								
	25.6		98.28	0.95	1.67	1.67								
	25.7		98.33	0.90	1.81	1.81								
	25.8		98.33	0.90	1.61	1.61								
	25.9		98.33	0.90	1.58	1.58								
	26.0		98.33	0.90	0.99	0.99								
	26.1		98.38	0.85	0.99	0.99								
	26.2		98.43	0.80	0.53	0.53								
	26.3		98.43	0.80	0.26	0.26								
	26.4		98.53	0.70	0.16	0.16								
	26.5		98.53	0.70	0.20	0.20								
	26.6		98.63	0.60	0.07	0.07								
LWS	26.7		98.58	0.65	0.07	0.07								
	26.8		98.58	0.65	0.03	0.03								
LWE	27.0		99.23	0.00	0.00	0.00								
	27.2		99.39											
	27.8		7.05	99.54										
	29.0		6.71	99.88										
	30.0		6.50	100.09										
	31.0		6.09	100.50										
	32.0		5.91	100.68										
	34.0		5.78	100.81										
LWP	36.9		5.74	100.85										



Stream: Sycan River
 Site: SY-10
 Transect: 3
 Habitat: Run

Survey HI Q
 Date (ft) (cfs)
 5/16/93 106.26 9.1
 6/27/93 106.59 1.66
 9/19/93 105.27 0.63

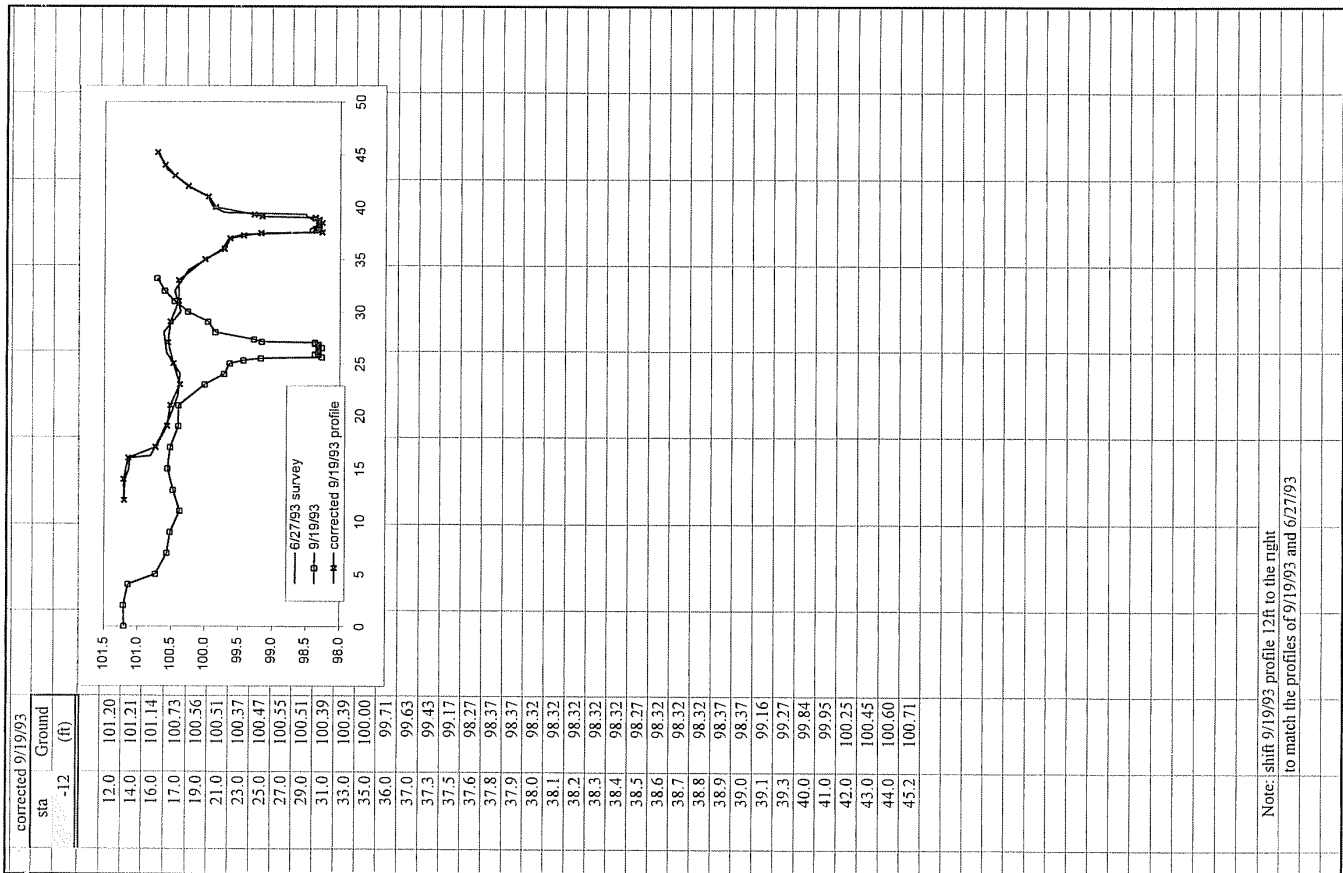
	16-May-93				q	substrate
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)		
RWE	2.4	100.61	0.00	0.00	0.00	0.00
	3.0	100.51	0.10	0.00	0.00	0.00
	4.0	100.36	0.25	0.00	0.00	0.00
	4.5	100.26	0.35	0.34	0.34	0.06
	5.0	100.21	0.40	0.27	0.27	0.05
	5.5	100.01	0.60	0.34	0.34	0.07
	5.7	98.31	2.30	0.84	0.84	0.48
	6.0	98.21	2.40	1.06	1.06	1.02
	6.5	98.11	2.50	0.64	1.04	0.84
	7.0	97.91	2.70	0.62	2.27	1.45
	7.5	98.01	2.60	0.58	2.61	1.60
	8.0	99.51	1.10	1.03	1.03	0.57
	8.5	99.71	0.90	0.75	0.75	0.34
	9.0	99.86	0.75	0.70	0.70	0.26
	9.5	99.91	0.70	0.99	0.99	0.35
	10.0	100.01	0.60	1.12	1.12	0.34
	10.5	100.06	0.55	1.00	1.00	0.28
	11.0	100.16	0.45	0.67	0.67	0.15
	11.5	100.31	0.30	0.54	0.54	0.10
LWE	12.2	100.61	0.00	0.00	0.00	0.00

Note: This is the discharge measured at Q-transect located at about 70ft upstream of TR-3.

	27-Jun-93				q	substrate
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)		
RWP	12.0	5.39	101.20			1.1
	14.0	5.40	101.19			1.1
	15.0	5.46	101.13			1.1
	16.0	5.47	101.12			1.1
	16.2	5.78	100.81			1.1
	18.0	5.94	100.65			1.1
	20.0	6.08	100.51			1.1
	22.0	6.19	100.40			1.1
	24.0	6.22	100.37			1.1
	26.0	6.02	100.57			1.1
	28.0	5.98	100.61			1.1
	30.0	6.23	100.36			1.1
	32.0	6.14	100.45			1.1
	34.0	6.35	100.24			1.1
	35.0	6.61	99.98			1.1
	36.0	6.85	99.74			1.1
	37.0	6.95	99.64			1.1
	37.4	7.15	99.44			1.1
RWE	37.6		98.45	0.00	0.00	0.00
	37.7		98.45	0.80	0.03	0.03
	37.8		98.45	0.80	0.07	0.07
	37.9		98.45	0.80	0.72	0.72
	37.9		98.45	0.80	1.25	1.25
	38.0		98.40	0.85	1.25	1.25
	38.1		98.40	0.85	1.58	1.58
	38.2		98.35	0.90	1.67	1.67
	38.3		98.35	0.90	1.71	1.71
	38.4		98.35	0.90	1.64	1.64
	38.5		98.35	0.90	1.71	1.71
	38.6		98.35	0.90	1.54	1.54
	38.7		98.35	0.90	1.41	1.41
	38.8		98.40	0.85	1.31	1.31
	38.9		98.45	0.80	1.15	1.15
	39.0		98.45	0.80	0.69	0.69
	39.1		98.50	0.75	0.59	0.59
	39.2		98.50	0.75	0.59	0.59
	39.3		98.50	0.75	0.49	0.49
	39.3		98.50	0.75	0.49	0.49
LWE	39.4		99.25	0.00	0.00	0.00
	39.5		99.71			0.00
	40.0		99.88			0.00
	41.0		99.96			0.00
	42.0		100.26			0.00
	43.6		100.57			0.00
LWP	45.2		100.70			0.00

meters/sec was used in the field notes.

	19-Sep-93				q	substrate
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)		
	0.0	4.07	101.20			1.1
	2.0	4.06	101.21			1.1
	4.0	4.13	101.14			1.1
	5.0	4.54	100.73			1.1
	7.0	4.71	100.56			1.1
	9.0	4.76	100.51			1.1
	11.0	4.90	100.37			1.1
	13.0	4.80	100.47			1.1
	15.0	4.72	100.55			1.1
	17.0	4.76	100.51			1.1
	19.0	4.88	100.39			1.1
	21.0	4.88	100.39			1.1
	23.0	5.27	100.00			1.1
	24.0	5.56	99.71			1.1
	25.0	5.64	99.63			1.1
	25.3	5.84	99.43			1.1
RWE	25.5	6.10	99.17	0.00	0.00	0.00
	25.6		98.27	0.90	0.02	0.02
	25.8		98.37	0.80	0.02	0.02
	25.9		98.37	0.80	0.04	0.04
	26.0		98.32	0.85	0.06	0.06
	26.1		98.32	0.85	0.06	0.06
	26.2		98.32	0.85	0.10	0.10
	26.3		98.32	0.85	0.25	0.25
	26.4		98.32	0.85	0.85	0.85
	26.5		98.27	0.90	1.14	1.14
	26.6		98.32	0.85	1.45	1.45
	26.7		98.32	0.85	1.40	1.40
	26.8		98.32	0.85	0.99	0.99
	26.9		98.37	0.80	0.80	0.80
	27.0		98.37	0.80	0.20	0.20
LWE	27.1	6.11	99.16	0.00	0.00	0.00
	27.3	6.00	99.27			1.1
	28.0	5.43	99.84			1.1
	29.0	5.32	99.95			1.1
	30.0	5.02	100.25			1.1
	31.0	4.82	100.45			1.1
	32.0	4.67	100.60			1.1
	33.2	4.56	100.71			1.1



Note: shift 9/19/93 profile 12ft to the right
to match the profiles of 9/19/93 and 6/27/93

Sycane River SY10 06/27/93

RUN	MID							TRANSECT 1
IOC	1101100100001000101000							
QARD	0.4							
QARD	0.5							
QARD	0.6							
QARD	0.7							
QARD	0.8							
QARD	0.9							
QARD	1.0							
QARD	1.2							
QARD	1.4							
QARD	1.6							
QARD	2.0							
QARD	2.5							
QARD	3.0							
QARD	3.5							
QARD	4.0							
QARD	4.5							
QARD	5.0							
QARD	5.5							
QARD	6.0							
QARD	6.5							
QARD	7.0							
QARD	7.5							
QARD	8.0							
QARD	8.5							
QARD	9.1							
QARD	9.5							
QARD	10.0							
QARD	11.0							
QARD	12.0							
QARD	14.0							
XSEC1000.0	0.00	1.0	98.08	0.0024				
1000.0	0.0101.2	2.0101.2	3.3101.2	4.2100.9	5.0100.6	6.0100.3		
1000.0	8.0100.1	10.0100.2	12.0100.3	14.0100.4	16.0100.5	18.0100.5		
1000.0	20.0100.5	22.0100.3	23.0100.0	24.0 99.9	24.4 99.6	24.7 98.1		
1000.0	24.8 98.1	24.9 98.1	25.0 98.1	25.1 98.1	25.2 98.1	25.3 98.2		
1000.0	25.4 98.2	25.5 98.2	25.6 98.2	25.7 98.2	25.8 98.2	25.9 98.2		
1000.0	26.1 99.2	26.4 99.6	27.0 99.7	28.4 99.7	29.0100.3	30.0100.6		
1000.0	31.0100.6	33.0100.7	35.0100.8	36.6100.8				
NS 1000.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	
NS 1000.0	1.1	1.1	0.09	1.1	1.1	1.1	1.1	
NS 1000.0	1.1	1.1	1.1	1.1	1.1	.05	1.1 .045 9.9	
NS 1000.0	9.9	.052	9.9 .050	9.9 .053	9.9	9.5	9.5	
NS 1000.0	9.5	9.5	9.5	9.9	0.07	9.9	0.08 9.9	
NS 1000.0	1.1	1.1	1.1	1.1	0.05	1.1	1.1	
NS 1000.0	1.1	1.1	1.1	1.1				
WSL 1000.0	99.03	99.04	99.08	99.11	99.12	99.13		
WSL 1000.0	99.15	99.16	99.17	99.18	99.32	99.50		
WSL 1000.0	99.66	99.79	99.91	100.00	100.10	100.18		
WSL 1000.0	100.25	100.30	100.36	100.40	100.45	100.49		
WSL 1000.0	100.53	100.55	100.57	100.62	100.66	100.74		
CAL11000.0	99.18	1.6						
VEL11000.0								
VEL11000.0			1.35	1.31	1.58	1.64	1.51 1.48 1.38	
VEL11000.0	1.28	1.22	1.12	1.05	0.79	0.56		
VEL11000.0								
CAL21000.0	99.12	0.8						
VEL21000.0								
VEL21000.0								
VEL21000.0								
CAL31000.0	100.54	9.1						
VEL31000.0								
VEL31000.0								
VEL31000.0								
VEL31000.0								
ENDJ								

Sycane River SY10 06/27/93

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RUN                               MID                               TRANSECT 2
IOC      1101100100001000101000
QARD    0.4
QARD    0.5
QARD    0.6
QARD    0.7
QARD    0.8
QARD    0.9
QARD    1.0
QARD    1.2
QARD    1.4
QARD    1.6
QARD    2.0
QARD    2.5
QARD    3.0
QARD    3.5
QARD    4.0
QARD    4.5
QARD    5.0
QARD    5.5
QARD    6.0
QARD    6.5
QARD    7.0
QARD    7.5
QARD    8.0
QARD    8.5
QARD    9.1
QARD    9.5
QARD   10.0
QARD   11.0
QARD   12.0
QARD   14.0
XSEC1000.0      0.00 1.0      98.28  0.0024
1000.0  0.0101.2  2.0101.2  4.0101.2  5.0101.0  6.0100.7  8.0100.4
1000.0 10.0100.2 12.0100.4 14.0100.4 16.0100.4 18.0100.4 20.0100.4
1000.0 22.0100.2 23.0100.1 24.0 99.9 24.3 99.7 24.5 99.2 24.6 98.5
1000.0 24.7 98.5 24.8 98.4 24.9 98.4 25.0 98.3 25.1 98.3 25.2 98.3
1000.0 25.3 98.3 25.4 98.3 25.5 98.3 25.6 98.3 25.7 98.3 25.8 98.3
1000.0 25.9 98.3 26.0 98.3 26.1 98.4 26.2 98.4 26.3 98.4 26.4 98.5
1000.0 26.5 98.5 26.6 98.6 26.7 98.6 26.8 98.6 27.0 99.2 27.2 99.4
1000.0 27.8 99.5 29.0 99.9 30.0100.1 31.0100.5 32.0100.7 34.0100.8
1000.0 36.9100.9
NS 1000.0      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
NS 1000.0      1.1      1.1      1.1      1.1      9.9 0.15  9.9
NS 1000.0 0.15  9.9 .12  9.9  9.9  9.9  9.9  9.9  9.9  9.9
NS 1000.0      9.9      9.9      9.9      9.9 .042  9.9  9.9
NS 1000.0      9.9      9.9      9.9 0.12  9.9 0.12  9.9 0.12  9.9
NS 1000.0 0.12  9.9 0.12  9.9 0.15  9.9 0.15  9.9 0.15  9.9  1.1
NS 1000.0      1.1      1.1      1.1      1.1      1.1      1.1
NS 1000.0      1.1
WSL 1000.0      99.05      99.05      99.09      99.12      99.14      99.15
WSL 1000.0      99.17      99.18      99.20      99.21      99.35      99.54
WSL 1000.0      99.70      99.83      99.95      100.04      100.13      100.22
WSL 1000.0     100.28      100.33      100.39      100.44      100.48      100.52
WSL 1000.0     100.56      100.58      100.60      100.65      100.69      100.77
CAL11000.0      99.23      1.6
VEL11000.0
VEL11000.0      0.00 0.03 0.03 0.13 0.62 0.92 0.99 1.05
VEL11000.0 1.25 1.61 1.54 1.67 1.81 1.61 1.58 0.99 0.99 0.53 0.26 0.16
VEL11000.0 0.20 0.07 0.07 0.03 0.00
VEL11000.0
CAL21000.0      99.15      0.8
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0     100.55      9.1
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

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Sycane River SY10 06/27/93

RUN MID TRANSECT 3

IOC 1101100100001000101000

QARD 0.4
 QARD 0.5
 QARD 0.6
 QARD 0.7
 QARD 0.8
 QARD 0.9
 QARD 1.0
 QARD 1.2
 QARD 1.4
 QARD 1.6
 QARD 2.0
 QARD 2.5
 QARD 3.0
 QARD 3.5
 QARD 4.0
 QARD 4.5
 QARD 5.0
 QARD 5.5
 QARD 6.0
 QARD 6.5
 QARD 7.0
 QARD 7.5
 QARD 8.0
 QARD 8.5
 QARD 9.1
 QARD 9.5
 QARD 10.0
 QARD 11.0
 QARD 12.0
 QARD 14.0

XSEC1000.0 0.00 1.0 98.35 0.0024

1000.0 12.0101.2 14.0101.2 15.0101.1 16.0101.1 16.2100.8 18.0100.7
 1000.0 20.0100.5 22.0100.4 24.0100.4 26.0100.6 28.0100.6 30.0100.4
 1000.0 32.0100.5 34.0100.2 35.0100.0 36.0 99.7 37.0 99.6 37.4 99.4
 1000.0 37.6 98.4 37.7 98.4 37.8 98.4 37.9 98.4 38.0 98.4 38.1 98.4
 1000.0 38.2 98.3 38.3 98.3 38.4 98.3 38.5 98.3 38.6 98.3 38.7 98.3
 1000.0 38.8 98.4 38.9 98.4 39.0 98.4 39.1 98.5 39.2 98.5 39.3 98.5
 1000.0 39.4 99.2 39.5 99.7 40.0 99.9 41.0100.0 42.0100.3 43.6100.6
 1000.0 45.2100.7

NS 1000.0 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
 NS 1000.0 1.1 1.1 1.1 0.15 1.1 0.08 1.1 1.1
 NS 1000.0 0.05 9.9 0.05 9.5 .05 9.5 5.5 5.5 5.5
 NS 1000.0 5.5 5.5 5.5 5.5 5.5 5.5 5.5
 NS 1000.0 5.5 5.5 5.9 .045 5.9 .05 5.9 .06 1.1
 NS 1000.0 1.1 1.1 1.1 1.1 1.1 1.1
 NS 1000.0 1.1

WSL 1000.0 99.09 99.09 99.13 99.16 99.18 99.19
 WSL 1000.0 99.21 99.22 99.24 99.25 99.40 99.58
 WSL 1000.0 99.74 99.86 99.98 100.08 100.17 100.25
 WSL 1000.0 100.32 100.37 100.43 100.48 100.52 100.57
 WSL 1000.0 100.61 100.63 100.65 100.69 100.74 100.82

CAL11000.0 99.25 1.6

VEL11000.0
 VEL11000.0 0.00 0.03 0.07 0.72 1.25 1.25 1.58
 VEL11000.0 1.67 1.71 1.64 1.71 1.54 1.41 1.31 1.15 0.69 0.59 0.59 0.49
 VEL11000.0 0.00

CAL21000.0 99.17 0.8

VEL21000.0
 VEL21000.0
 VEL21000.0
 VEL21000.0

CAL31000.0 100.61 9.1

VEL31000.0
 VEL31000.0
 VEL31000.0
 VEL31000.0

ENDJ

Sycane River SY10 06/27/93

RUN	MID			
PARD	30	1.00	0	1.000
QARD	0.4	0.0017		2.60 2.60
QARD	0.5	0.0017		2.10 2.10
QARD	0.6	0.0017		1.88 1.88
QARD	0.7	0.0017		1.70 1.70
QARD	0.8	0.0017		1.53 1.53
QARD	0.9	0.0018		1.42 1.42
QARD	1.0	0.0019		1.35 1.35
QARD	1.2	0.0020		1.18 1.18
QARD	1.4	0.0022		1.08 1.08
QARD	1.6	0.0024		1.00 1.00
QARD	2.0	0.0025		1.02 1.02
QARD	2.5	0.0025		1.05 1.05
QARD	3.0	0.0025		1.07 1.07
QARD	3.5	0.0026		1.10 1.10
QARD	4.0	0.0026		1.13 1.13
QARD	4.5	0.0026		1.15 1.15
QARD	5.0	0.0026		1.18 1.18
QARD	5.5	0.0026		1.21 1.21
QARD	6.0	0.0026		1.23 1.23
QARD	6.5	0.0027		1.26 1.26
QARD	7.0	0.0027		1.29 1.29
QARD	7.5	0.0027		1.31 1.31
QARD	8.0	0.0027		1.34 1.34
QARD	8.5	0.0027		1.37 1.37
QARD	9.1	0.0028		1.40 1.40
QARD	9.5	0.0028		1.40 1.40
QARD	10.0	0.0029		1.40 1.40
QARD	11.0	0.0029		1.40 1.40
QARD	12.0	0.0029		1.40 1.40
QARD	14.0	0.0029		1.40 1.40

FFFFFFFF

**

0.0	0.0101.2	2.0101.2	3.3101.2	4.2100.9	5.0100.6	6.0100.3
0.0	8.0100.1	10.0100.2	12.0100.3	14.0100.4	16.0100.5	18.0100.5
0.0	20.0100.5	22.0100.3	23.0100.0	24.0 99.9	24.4 99.6	24.7 98.1
0.0	24.8 98.1	24.9 98.1	25.0 98.1	25.1 98.1	25.2 98.1	25.3 98.2
0.0	25.4 98.2	25.5 98.2	25.6 98.2	25.7 98.2	25.8 98.2	25.9 98.2
0.0	26.1 99.2	26.4 99.6	27.0 99.7	28.4 99.7	29.0100.3	30.0100.6
0.0	31.0100.6	33.0100.7	35.0100.8	36.6100.8		
0.0	.058 2.0	.058 3.3	.058 4.2	.058 5.0		
0.0	.058 6.0	.058 8.0	.058 10.0	.058 12.0		
0.0	.058 14.0	.058 16.0	.058 18.0	.058 20.0		
0.0	.058 22.0	.058 23.0	.058 24.0	.058 24.4		
0.0	.058 24.7	.058 24.8	.058 24.9	.058 25.0		
0.0	.058 25.1	.058 25.2	.058 25.3	-.058 25.4		
0.0	.058 25.5	.058 25.6	.058 25.7	.058 25.8		
0.0	.058 25.9	.058 26.1	.058 26.4	.058 27.0		
0.0	.058 28.4	.058 29.0	.058 30.0	.058 31.0		
0.0	.058 33.0	.058 35.0	.058 36.6	.058		
7.3	0.0101.2	2.0101.2	4.0101.2	5.0101.0	6.0100.7	8.0100.4
7.3	10.0100.2	12.0100.4	14.0100.4	16.0100.4	18.0100.4	20.0100.4
7.3	22.0100.2	23.0100.1	24.0 99.9	24.3 99.7	24.5 99.2	24.6 98.5
7.3	24.7 98.5	24.8 98.4	24.9 98.4	25.0 98.3	25.1 98.3	25.2 98.3
7.3	25.3 98.3	25.4 98.3	25.5 98.3	25.6 98.3	25.7 98.3	25.8 98.3
7.3	25.9 98.3	26.0 98.3	26.1 98.4	26.2 98.4	26.3 98.4	26.4 98.5
7.3	26.5 98.5	26.6 98.6	26.7 98.6	26.8 98.6	27.0 99.2	27.2 99.4
7.3	27.8 99.5	29.0 99.9	30.0100.1	31.0100.5	32.0100.7	34.0100.8

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7.3	36.9	100.9											
7.3	.070	2.0	.070	4.0	.070	5.0	.070	6.0					*
7.3	.070	8.0	.070	10.0	.070	12.0	.070	14.0					*
7.3	.070	16.0	.070	18.0	.070	20.0	.070	22.0					*
7.3	.070	23.0	.070	24.0	.070	24.3	.070	24.5					*
7.3	.070	24.6	.070	24.7	.070	24.8	.070	24.9					*
7.3	.070	25.0	.070	25.1	.070	25.2	.070	25.3					*
7.3	.070	25.4	.070	25.5	.070	25.6	-.070	25.7					*
7.3	.070	25.8	.070	25.9	.070	26.0	.070	26.1					*
7.3	.070	26.2	.070	26.3	.070	26.4	.070	26.5					*
7.3	.070	26.6	.070	26.7	.070	26.8	.070	27.0					*
7.3	.070	27.2	.070	27.8	.070	29.0	.070	30.0					*
7.3	.070	31.0	.070	32.0	.070	34.0	.070	36.9					*
27.1	12.0	101.2	14.0	101.2	15.0	101.1	16.0	101.1	16.2	100.8	18.0	100.7	
27.1	20.0	100.5	22.0	100.4	24.0	100.4	26.0	100.6	28.0	100.6	30.0	100.4	
27.1	32.0	100.5	34.0	100.2	35.0	100.0	36.0	99.7	37.0	99.6	37.4	99.4	
27.1	37.6	98.4	37.7	98.4	37.8	98.4	37.9	98.4	38.0	98.4	38.1	98.4	
27.1	38.2	98.3	38.3	98.3	38.4	98.3	38.5	98.3	38.6	98.3	38.7	98.3	
27.1	38.8	98.4	38.9	98.4	39.0	98.4	39.1	98.5	39.2	98.5	39.3	98.5	
27.1	39.4	99.2	39.5	99.7	40.0	99.9	41.0	100.0	42.0	100.3	43.6	100.6	
27.1	45.2	100.7											
27.1	0.06	14.0	0.06	15.0	0.06	16.0	0.06	16.2					*
27.1	0.06	18.0	0.06	20.0	0.06	22.0	0.06	24.0					*
27.1	0.06	26.0	0.06	28.0	0.06	30.0	0.06	32.0					*
27.1	0.06	34.0	0.06	35.0	0.06	36.0	0.06	37.0					*
27.1	0.06	37.4	0.06	37.6	0.06	37.7	0.06	37.8					*
27.1	0.06	37.9	0.06	38.0	0.06	38.1	0.06	38.2					*
27.1	0.06	38.3	0.06	38.4	0.06	38.5	-.06	38.6					*
27.1	0.06	38.7	0.06	38.8	0.06	38.9	0.06	39.0					*
27.1	0.06	39.1	0.06	39.2	0.06	39.3	0.06	39.4					*
27.1	0.06	39.5	0.06	40.0	0.06	41.0	0.06	42.0					*
27.1	0.06	43.6	0.06	45.2									*

ENDJ
ENDR