12-8-2009

Ex. 279-US-424 (Corrected)

Unknown

Sycan River INSTREAM FLOW STUDY

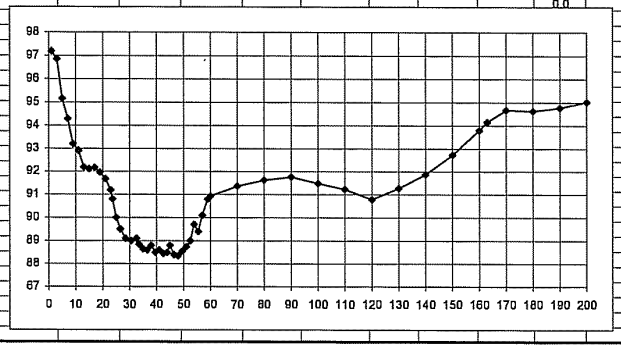
Reach: Lower Site: SY2

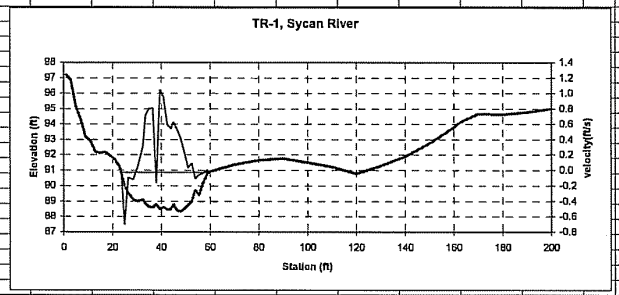
Transect: 1

Dist. Offset (ft)

	Date	Elev. (ft)	Q (cfs)	BS of BM	HI	FS	HP	FS (final)		HI (final)	FS	ROD	RWSE			HI	FS	ROD	LWSE
WSE 1 (ft)	18-May-00	92.08	239.69							99.98	8.30	0.40	92.08			99.98			
WSE 2 (ft)	28-Jun-00	90.79	22.02							100.17	9.38	0.00	90.79			100.17	9.39	0.00	90.78
WSE 3 (ft)	4-Oct-00	90.50	19.98							97.86	8.32	0.95	90.49			97.86	8.03	0.67	90.50

	Distance (ft)	FS (ft)	Elevation (ft)	Depth 1 (ft)	Vel 1 (ft/sec)	Depth 2 (ft)	Vel 2 (ft/sec)	Distance (ft)	Depth 3 (ft)	Vel 3 (ft/sec)	Depth 4 (ft)	Vel 4 (ft/sec)	Substrate Code	Embed.	Substrate Code	Embed.		Dist. Pin (ft)	Bed Elev. (ft)	Substrate Code	Vel 1 (ft/sec)	Vel 2 (ft/sec)	Vel 3 (ft/sec)	Vel 4 (ft/sec)		QI1 (cfs)	QI2 (cfs)	QI3 (cfs)
	1.0	2.99	97.18										0.0					1.0	97.18	00.0								
	3.0	3.33	96.84										0.0					3.0	96.84	00.0								
	5.0	5.02	95.15										0.0					5.0	95.15	00.0								
	7.0	5.89	94.28										0.0					7.0	94.28									
	9.0	6.99	93.18										0.0					9.0	93.18	00.0								
	11.0	7.28	92.89										0.0					11.0	92.89	00.0								
	13.0	7.99	92.18										0.0					13.0	92.18	00.0								
	15.0	8.06	92.11										0.0					15.0	92.11	00.0								
	17.0	8.01	92.16										0.0					17.0	92.16	00.0								
	19.0	8.22	91.95										0.0					19.0	91.95	00.0								
	21.0	8.50	91.67										0.0					21.0	91.67	00.0								
	23.0	8.99	91.18										0.0					23.0	91.18	00.0								
RWE	23.6	9.38	90.79	0.00	0.00			24.20	0.00	0.00			1.2					23.6	90.79	01.2						0.00		0.00
	25.0		89.99	0.80	-0.70			25.00	0.40	0.00			1.2					25.0	89.99	01.2						-0.81		0.00
	26.5		89.49	1.30	-0.10			26.50	0.80	0.00			2.5					26.5	89.49	02.5						-0.23		0.00
	28.5		89.09	1.70	-0.12			28.50	1.25	0.00			8.2					28.5	89.09	08.2						-0.41		0.00
	30.5		88.99	1.80	0.05			30.50	1.60	0.00			9.2					30.5	88.99	09.2						0.18		0.00
	32.5		89.09	1.70	0.30			32.50	1.60	0.20			9.2					32.5	89.09	09.2						0.77		0.48
	33.5		88.84	1.95	0.71			33.50	1.85	0.19			9.2					33.5	88.84	09.2						1.73		0.44
	35.0		88.64	2.15	0.80			35.00	1.85	0.65			9.1					35.0	88.64							2.58		1.80
	36.5		88.59	2.20	0.81			36.50	1.95	0.58			9.8					36.5	88.59	09.8						2.67		1.70
	38.0		88.79	2.00	-0.16			38.00	1.75	0.39			9.8					38.0	88.79	09.8						-0.48		1.02
	39.5		88.49	2.30	1.04			39.50	2.00	0.66			9.8													3.59		1.98
	41.0		88.59	2.20	0.95			41.00	2.10	0.50			9.1													3.14		1.58
	42.5		88.44	2.35	0.59			42.50	2.00	0.33			9.1													2.08		0.99
	44.0		88.49	2.30	0.54			44.00	2.00	0.25			6.9													1.55		0.63
	45.0		88.79	2.00	0.62			45.00	1.90	0.89			5.9													1.55		2.11
	46.5		88.39	2.40	0.53			46.50	2.10	0.98			4.5													1.91		3.09
	48.0		88.34	2.45	0.41			48.00	2.20	1.00			4.2													1.51		3.30
	49.5		88.54	2.25	0.22			49.50	2.00	0.08			4.2													0.74		0.24
	51.0		88.74	2.05	0.03			51.00	1.80	0.08			2.4													0.09		0.22
	52.5		88.99	1.80	0.08			52.50	1.60	0.17			2.3													0.22		0.41
	54.0		89.69	1.10	-0.11			54.00	1.35	0.00			2.4													-0.18		0.00
	55.5		89.39	1.40	-0.06			55.50	1.10	0.00			2.4													-0.13		0.00
	57.0		90.09	0.70	-0.04			57.00	0.70	0.00			2.1													-0.05		0.00
LWE	59.0	9.39	90.79	0.00	0.00			58.10	0.00	0.00			1.2													0.00		0.00
	60.0	9.26	90.91										0.0															
	70.0	8.82	91.35										0.0															
	80.0	8.55	91.62																									
	90.0	8.42	91.75																									
	100.0	8.69	91.48																									
	110.0	8.96	91.21																									
	120.0	9.4	90.77																									
	130.0	8.91	91.26																									
	140.0	8.3	91.87																									
	150.0	7.45	92.72																									
	160.0	6.39	93.78																									
	162.9	6.03	94.14																									
	170.0	5.51	94.66																									
	180.0	5.54	94.63																									
	190.0	5.4	94.77																									
	200.0	5.16	95.01																									





Qi4		dist pin		bed profile				dist pin		bed profile		
(cfs)		(ft)	Qm99	low -Q	high-Q	mid-Q		(ft)	Qm99	low -Q	high-Q	mid-Q
		1.0	97.18					1.0	97.18	97.18	97.18	97.18
		3.0	96.84					3.0	96.84	96.84	96.84	96.84
		5.0	95.15					5.0	95.15	95.15	95.15	95.15
		7.0	94.28			96.59		7.0	94.28	96.59	96.59	96.59
		9.0	93.18					9.0	93.18	93.18	93.18	93.18
		11.0	92.89					11.0	92.89	92.89	92.89	92.89
		13.0	92.18					13.0	92.18	92.18	92.18	92.18
		15.0	92.11					15.0	92.11	92.11	92.11	92.11
		17.0	92.16					17.0	92.16	92.16	92.16	92.16
		19.0	91.95					19.0	91.95	91.95	91.95	91.95
		21.0	91.67					21.0	91.67	91.67	91.67	91.67
		23.0	91.18					23.0	91.18	91.18	91.18	91.18
		23.6	90.79			-24.20		23.6	90.79	-24.20	-24.20	-24.20
		25.0	89.99			-25.00		25.0	89.99	-25.00	-25.00	-25.00
		26.5	89.49			-26.50		26.5	89.49	-26.50	-26.50	-26.50
		28.5	89.09			-28.50		28.5	89.09	-28.50	-28.50	-28.50
		30.5	88.99			-30.50		30.5	88.99	-30.50	-30.50	-30.50
		32.5	89.09			-32.50		32.5	89.09	-32.50	-32.50	-32.50
		33.5	88.84					33.5	88.84	88.84	88.84	88.84
		35.0	88.64			-35.00		35.0	88.64	-35.00	-35.00	-35.00
		36.5	88.59			-36.50		36.5	88.59	-36.50	-36.50	-36.50
		38.0	88.79			-38.00		38.0	88.79	-38.00	-38.00	-38.00
			88.49									
			88.59									
			88.44									
			88.49									

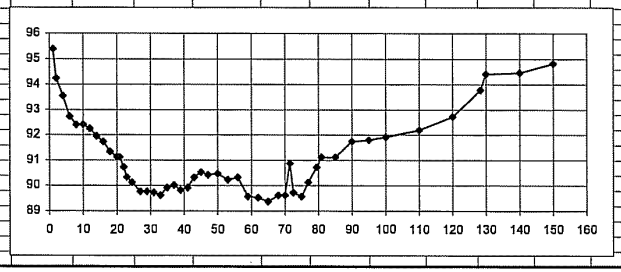
Sycan River INSTREAM FLOW STUDY

Reach:	Lower		Site:	SY2
Transect:	2			

Dist. Offset (ft)

	Date	Elev. (ft)	Q (cfs)	BS of BM	HI	FS	HP	FS (final)		HI (final)	FS	ROD	RWSE			HI	FS	ROD	LWSE
WSE 1 (ft)	18-May-00	92.36	239.69							99.98	8.21	0.59	92.36			99.98			92.36
WSE 2 (ft)	28-Jun-00	91.12	25.25							102.14	11.03	0.00	91.11			102.14	11.02	0.00	91.12
WSE 3 (ft)	4-Oct-00	90.90	7.51							97.86	6.52	1.55	90.89			97.86	8.46	1.51	90.91

	Distance	FS	Elevation	Depth 1	Vel 1	Depth 2	Vel 2	Distance	Depth 3	Vel 3	Depth 4	Vel 4	Substrate	Embed.	Substrate	Embed.		Dist. Pin	Bed Elev.	Substrate	Vel 1	Vel 2	Vel 3	Vel 4		QI1	QI2	QI3	QI4
	(ft)	(ft)	(ft)	(ft)	(ft/sec)	(ft)	(ft/sec)	(ft)	(ft)	(ft/sec)	(ft)	(ft/sec)	Code		Code			(ft)	(ft)	Code	(ft/sec)	(ft/sec)	(ft/sec)	(ft/sec)		(cfs)	(cfs)	(cfs)	(cfs)
	1.0	6.76	95.38		9.99													1.0	95.38	00.0									
	2.0	7.91	94.23		9.99													2.0	94.23	00.0									
	4.0	8.60	93.54		9.99													4.0	93.54	00.0									
	6.0	9.42	92.72		9.99													6.0	92.72										
	8.0	9.76	92.38		9.99													8.0	92.38	00.0									
	10.0	9.74	92.40		9.99													10.0	92.40	00.0									
	12.0	9.90	92.24		9.99													12.0	92.24	00.0									
	14.0	10.19	91.95		9.99													14.0	91.95	00.0									
	16.0	10.41	91.73		9.99													16.0	91.73	00.0									
	18.0	10.80	91.34		9.99													18.0	91.34	00.0									
	20.0	11.01	91.13		9.99													20.0	91.13	00.0									
RWE	20.8	11.03	91.12	0.00	0.00			21.90	0.00	0.00			1.2					20.8	91.12	01.2						0.00		0.00	
	22.0		90.72	0.40	0.00			22.00	0.10	0.00			1.2					22.0	90.72	01.2						0.00		0.00	
	23.0		90.32	0.80	0.18			23.00	0.50	0.10			1.2					23.0	90.32	01.2						0.18		0.06	
	24.5		90.12	1.00	0.93			24.50	0.90	0.46			6.5					24.5	90.12	06.5						1.86		0.83	
	27.0		89.77	1.35	0.83			27.00	1.15	0.37			9.5					27.0	89.77	09.5						2.52		0.96	
	29.0		89.77	1.35	0.84			29.00	1.20	0.38			9.5					29.0	89.77	09.5						2.27		0.91	
	31.0		89.72	1.40	0.85			31.00	1.00	0.48			9.5					31.0	89.72	09.5						2.38		0.96	
	33.0		89.62	1.50	0.86			33.00	1.20	0.37			9.5					33.0	89.62	09.5						2.58		0.89	
	35.0		89.92	1.20	0.86			35.00	1.00	0.41			9.5					35.0	89.92							2.06		0.82	
	37.0		90.02	1.10	0.60			37.00	0.85	0.13			9.6					37.0	90.02	09.6						1.32		0.22	
	39.0		89.82	1.30	0.12			39.00	1.20	0.16			9.6					39.0	89.82	09.6						0.31		0.38	
	41.0		89.92	1.20	0.47			41.00	0.90	0.24			9.6													1.13		0.43	
	43.0		90.32	0.80	0.46			43.00	0.60	0.16			6.9													0.74		0.19	
	45.0		90.52	0.60	0.61			45.00	0.40	0.25			6.9													0.75		0.21	
	47.1		90.42	0.70	0.55			47.10	0.40	0.18			7.5													0.96		0.18	
	50.0		90.47	0.65	0.30			50.00	0.00	0.00			8.5													0.58		0.00	
	53.0		90.22	0.90	0.32			53.00	0.70	0.07			5.9													0.86		0.15	
	56.0		90.32	0.80	0.36			56.00	0.50	0.04			8.4													0.86		0.06	
	59.0		89.57	1.55	0.22			59.00	0.90	0.08			4.9													1.02		0.22	
	62.0		89.52	1.60	0.15			62.00	1.40	0.00			9.5													0.72		0.00	
	65.0		89.37	1.75	0.13			65.00	1.40	0.00			9.4													0.68		0.00	
	68.0		89.62	1.50	0.09			68.00	1.20	0.00			9.8													0.34		0.00	
	70.0		89.62	1.50	0.15			70.00	1.30	0.00			9.8													0.39		0.00	
	71.5		90.87	0.25	0.09			71.50	0.00	0.00			8.9													0.03		0.00	
	72.5		89.72	1.40	0.13			72.50	1.20	0.02			9.8													0.32		0.04	
	75.0		89.57	1.55	0.11			75.00	1.20	0.00			9.8													0.38		0.00	
	77.0		90.12	1.00	0.00			77.00	0.75	0.00			9.8													0.00		0.00	
	79.5		90.72	0.40	0.00			79.50	0.10	0.00			1.2													0.00		0.00	
LWE	80.9	11.02	91.12	0.00	0.00			80.00	0.00	0.00			7.2													0.00		0.00	
	85.0	10.40	91.12		9.99																								
	90.0	10.34	91.74		9.99																								
	95.0	10.23	91.80		9.99																								
	100.0	9.96	91.91		9.99																								
	110.0	9.43	92.18		9.99																								
	120.0	8.37	92.71		9.99																								
	128.3	7.74	93.77		9.99																								
	130.0	7.69	94.40		9.99																								
	140.0	7.33	94.45		9.99																								
	150.0	6.24	94.81		9.99																								



dist pin (ft)	Qm99	bed profile low -Q	high-Q	mid-Q
1.0	95.38			
2.0	94.23			
4.0	93.54			
6.0	92.72			96.59
8.0	92.38			
10.0	92.40			
12.0	92.24			
14.0	91.95			
16.0	91.73			
18.0	91.34			
20.0	91.13			
20.8	91.12			0.00
22.0	90.72			0.00
23.0	90.32			-0.10
24.5	90.12			-0.46
27.0	89.77			-0.37
29.0	89.77			-0.38
31.0	89.72			-0.48
33.0	89.62			
35.0	89.92			-0.41
37.0	90.02			-0.13
39.0	89.82			-0.16
	89.92			
	90.32			
	90.52			
	90.42			

dist pin (ft)	Qm99	bed profile low -Q	high-Q	mid-Q
1.0	95.38	95.38	95.38	95.38
2.0	94.23	94.23	94.23	94.23
4.0	93.54	93.54	93.54	93.54
6.0	92.72	96.59	96.59	96.59
8.0	92.38	92.38	92.38	92.38
10.0	92.40	92.40	92.40	92.40
12.0	92.24	92.24	92.24	92.24
14.0	91.95	91.95	91.95	91.95
16.0	91.73	91.73	91.73	91.73
18.0	91.34	91.34	91.34	91.34
20.0	91.13	91.13	91.13	91.13
20.8	91.12	0.00	0.00	0.00
22.0	90.72	0.00	0.00	0.00
23.0	90.32	-0.10	-0.10	-0.10
24.5	90.12	-0.46	-0.46	-0.46
27.0	89.77	-0.37	-0.37	-0.37
29.0	89.77	-0.38	-0.38	-0.38
31.0	89.72	-0.48	-0.48	-0.48
33.0	89.62	89.62	89.62	89.62
35.0	89.92	-0.41	-0.41	-0.41
37.0	90.02	-0.13	-0.13	-0.13
39.0	89.82	-0.16	-0.16	-0.16

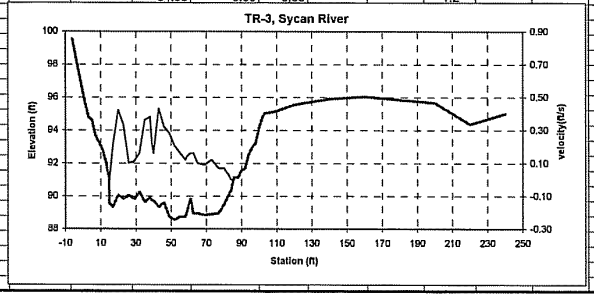
Sycan River INSTREAM FLOW STUDY

Reach: Lower
Transect: 3
Site: SY2

Dist. Offset (ft)

	Date	Elev. (ft)	Q (cfs)	BS of BM	HI	FS	HP	FS (final)		HI (final)	FS	ROD	RWSE			HI	FS	ROD	LWSE
WSE 1 (ft)	18-May-00	92.46	239.69							99.98	8.58	1.06	92.46			99.98	10.30	2.78	92.46
WSE 2 (ft)	28-Jun-00	91.13	22.38							106.28	15.14	0.00	91.14			106.28	15.16	0.00	91.12
WSE 3 (ft)	4-Oct-00	90.90	4.77							97.86	8.44	1.47	90.89			97.86	7.28	0.33	90.91

	Distance (ft)	FS (ft)	Elevation (ft)	Depth 1 (ft)	Vel 1 (ft/sec)	Depth 2 (ft)	Vel 2 (ft/sec)	Distance (ft)	Depth 3 (ft)	Vel 3 (ft/sec)	Depth 4 (ft)	Vel 4 (ft/sec)	Substrate Code	Embed.	Substrate Code	Embed.		Dist. Pin (ft)	Bed Elev. (ft)	Substrate Code	Vel 1 (ft/sec)	Vel 2 (ft/sec)	Vel 3 (ft/sec)	Vel 4 (ft/sec)		Qi1 (cfs)	Qi2 (cfs)	Qi3 (cfs)	Qi4 (cfs)
	-6.0	6.75	99.53																										
	-3.0	8.41	97.87																										
	1.0	10.53	95.75															1.0	95.75	00.0									
	3.0	11.49	94.79															3.0	94.79	00.0									
	5.0	11.69	94.59															5.0	94.59	00.0									
	7.0	12.62	93.66															7.0	93.66										
	9.0	13.02	93.26															9.0	93.26	00.0									
	11.0	13.47	92.81															11.0	92.81	00.0									
	13.0	14.24	92.04															13.0	92.04	00.0									
RWE	14.6	15.14	91.13	0.00	0.00			14.60	0.00	0.00			2.1					14.6	91.13	02.1						0.00		0.00	
	15.0		89.53	1.60	0.00			15.00	1.30	0.00			2.1					15.0	89.53	02.1						0.00		0.00	
	17.0		89.33	1.80	0.21			17.00	1.50	0.03			2.1					17.0	89.33	02.1						0.95		0.11	
	20.0		90.03	1.10	0.42			20.00	1.20	0.04			8.2					20.0	90.03	08.2						1.39		0.14	
	23.0		89.83	1.30	0.33			23.00	1.00	0.00			2.7					23.0	89.83	02.7						1.29		0.00	
	26.0		90.03	1.10	0.10			26.00	0.90	0.00			7.2					26.0	90.03	07.2						0.33		0.00	
	29.0		89.83	1.30	0.11			29.00	1.10	-0.01			8.2					29.0	89.83	08.2						0.43		-0.03	
	32.0		90.23	0.90	0.16			32.00	1.40	0.00			8.2					32.0	90.23	08.2						0.43		0.00	
	35.0		89.63	1.50	0.36			35.00	1.30	0.10			8.2					35.0	89.63	08.2						1.62		0.39	
	38.0		89.88	1.25	0.38			38.00	1.00	0.06			8.2					38.0	89.88	08.2						0.95		0.12	
	39.0		89.73	1.40	0.23			39.00	0.30	0.16			8.2					39.0	89.73	08.2						0.32		0.05	
	40.0		89.68	1.45	0.16			40.00	0.10	0.05			8.2					40.0	89.68	08.2						0.46		0.01	
	43.0		89.33	1.80	0.43			43.00	1.50	0.14			9.2					43.0	89.33							2.32		0.63	
	46.0		89.58	1.55	0.32			46.00	1.50	0.12			9.2					46.0	89.58	09.2						1.49		0.54	
	49.0		88.73	2.40	0.28			49.00	2.15	0.06			9.2					49.0	88.73	09.2						2.02		0.39	
	52.0		88.53	2.60	0.21			52.00	2.30	0.11			9.2													1.60		0.76	
	55.0		88.73	2.40	0.16			55.00	2.20	0.07			9.2													1.15		0.46	
	58.0		88.73	2.40	0.12			58.00	2.20	0.08			9.2													0.58		0.35	
	59.0		89.03	2.10	0.14			59.00	1.90	0.08			9.2													0.44		0.23	
	61.0		89.83	1.30	0.16			61.00	0.75	0.04			9.2													0.36		0.05	#REF!
	62.5		88.93	2.20	0.16			62.50	2.05	0.02			9.2													0.70		0.08	
	65.0		88.93	2.20	0.10			65.00	2.00	0.01			9.2													0.72		0.07	
	69.0		88.83	2.30	0.09			69.00	2.00	0.00			9.2													0.83		0.00	
	73.0		88.88	2.25	0.12			73.00	2.10	0.05			9.2													1.08		0.42	
	77.0		88.93	2.20	0.07			77.00	2.00	0.00			9.2													0.54		0.00	
	80.0		89.43	1.70	0.07			80.00	1.50	0.00			6.2													0.33		0.00	
	82.5		90.03	1.10	0.03			82.50	0.95	0.00			7.2													0.07		0.00	
	84.0		90.33	0.80	0.00			84.00	0.50	0.00			2.1													0.00		0.00	
LWE	85.7	15.16	91.13	0.00	0.00			84.90	0.00	0.00			1.2													0.00		0.00	
	88.0	14.70	91.12																										
	90.0	14.61	91.58																										
	92.0	13.79	91.67																										
	94.0	13.35	92.49																										
	96.0	13.08	92.93																										
	98.0	12.16	93.20																										
	100.0	11.48	94.12																										
	102.0	11.27	94.80																										
	103.2	11.13	95.01																										
	110.0	10.74	95.15																										
	120.0	10.38	95.54																										
	140.0	10.25	95.90																										
	160.0	10.63	96.03																										
	200.0	11.92	95.65																										
	220.0	11.28	94.36																										
	240.0	5.05	95.00																										



dist pln		bed profile			dist pln		bed profile		
(ft)	Qm99	low -Q	high-Q	mid-Q	(ft)	Qm99	low -Q	high-Q	mid-Q
1.0	95.75				1.0	95.75	95.75	95.75	95.75
3.0	94.79				3.0	94.79	94.79	94.79	94.79
5.0	94.59				5.0	94.59	94.59	94.59	94.59
7.0	93.66			96.59	7.0	93.66	96.59	96.59	96.59
9.0	93.26				9.0	93.26	93.26	93.26	93.26
11.0	92.81				11.0	92.81	92.81	92.81	92.81
13.0	92.04				13.0	92.04	92.04	92.04	92.04
14.6	91.13			0.00	14.6	91.13	0.00	0.00	0.00
15.0	89.53			0.00	15.0	89.53	0.00	0.00	0.00
17.0	89.33			-0.03	17.0	89.33	-0.03	-0.03	-0.03
20.0	90.03			-0.04	20.0	90.03	-0.04	-0.04	-0.04
23.0	89.83			0.00	23.0	89.83	0.00	0.00	0.00
26.0	90.03			0.00	26.0	90.03	0.00	0.00	0.00
29.0	89.83			0.01	29.0	89.83	0.01	0.01	0.01
32.0	90.23			0.00	32.0	90.23	0.00	0.00	0.00
35.0	89.63			-0.10	35.0	89.63	-0.10	-0.10	-0.10
38.0	89.88			-0.06	38.0	89.88	-0.06	-0.06	-0.06
39.0	89.73			-0.16	39.0	89.73	-0.16	-0.16	-0.16
40.0	89.68				40.0	89.68	89.68	89.68	89.68
43.0	89.33			-0.14	43.0	89.33	-0.14	-0.14	-0.14
46.0	89.58			-0.12	46.0	89.58	-0.12	-0.12	-0.12
49.0	88.73			-0.06	49.0	88.73	-0.06	-0.06	-0.06
	88.53								
	88.73								
	88.73								
	89.03								

Sycan River INSTREAM FLOW STUDY

Reach: Lower Site: SY2

Transect: 4

Dist. Offset (ft)

	Date	Elev. (ft)	Q (cfs)	BS of BM	HI	FS	HP	FS (final)		HI (final)	FS	ROD	RWSE			HI	FS	ROD	LWSE
WSE 1 (ft)	18-May-00	92.52	239.69							99.98	7.95	0.48	92.51			99.98	9.23	1.78	92.53
WSE 2 (ft)	28-Jun-00	91.13	21.57							104.11	12.98	0.00	91.13			104.11	12.98	0.00	91.13
WSE 3 (ft)	4-Oct-00	90.95	6.75							103.84	13.78	0.89	90.95			103.84	13.34	0.45	90.95

	Distance (ft)	FS (ft)	Elevation (ft)	Depth 1 (ft)	Vel 1 (ft/sec)	Depth 2 (ft)	Vel 2 (ft/sec)	Distance (ft)	Depth 3 (ft)	Vel 3 (ft/sec)	Depth 4 (ft)	Vel 4 (ft/sec)	Substrate Code	Embed.	Substrate Code	Embed.	Dist. Pln (ft)	Bed Elev. (ft)	Substrate Code	Vel 1 (ft/sec)	Vel 2 (ft/sec)	Vel 3 (ft/sec)	Vel 4 (ft/sec)	QI1 (cfs)	QI2 (cfs)	QI3 (cfs)	QI4 (cfs)
	1.0	9.81	94.30		9.99												1.0	94.30	00.0								
	3.0	10.08	94.03		9.99												3.0	94.03	00.0								
	5.0	10.82	93.29		9.99												5.0	93.29	00.0								
	7.0	11.10	93.01		9.99												7.0	93.01									
	9.0	11.23	92.88		9.99												9.0	92.88	00.0								
	11.0	11.31	92.80		9.99			11.70	0.00	0.00							11.0	92.80	00.0							0.00	
RWE	13.4	12.98	91.13	0.00	0.00			13.40	1.20	0.00			2.1				13.4	91.13	02.1					0.00		0.00	
	13.6		89.48	1.65	0.11			13.60	1.20	0.00			2.1				13.6	89.48	02.1					0.03		0.00	
	13.7		89.53	1.60	0.06			13.70	1.20	0.00			2.1				13.7	89.53	02.1					0.09		0.00	
	15.5		89.73	1.40	0.05			15.50	1.20	0.20			2.3				15.5	89.73	02.3					0.12		0.40	
	17.0		89.78	1.35	0.25			17.00	0.90	0.15			3.2				17.0	89.78	03.2					0.29		0.11	
	17.2		90.33	0.80	0.25			17.20	0.60	0.19			9.3				17.2	90.33	09.3					0.27		0.15	
	19.7		90.53	0.60	0.08			19.70	0.45	0.00			9.2				19.7	90.53	09.2					0.09		0.00	
	21.0		91.63	-0.50	0.00			21.00	0.00	0.00			9.2				21.0	91.63	09.2					0.00		0.00	
	21.9		91.33	-0.20	0.00			21.90	0.90	0.09			8.9				21.9	91.33	08.9					0.00		0.04	
	22.0		89.93	1.20	0.34			22.00	1.00	0.06			8.9				22.0	89.93	08.9					0.63		0.09	
	25.0		89.43	1.70	0.24			25.00	1.30	0.06			8.2				25.0	89.43	08.2					1.02		0.26	
	27.0		89.23	1.90	0.36			27.00	2.00	0.13			8.2				27.0	89.23	08.2					1.03		0.39	
	28.0		88.53	2.60	0.25			28.00	2.35	0.06			8.2				28.0	88.53	08.2					0.98		0.21	
	30.0		88.83	2.30	0.25			30.00	2.55	0.10			9.2				30.0	88.83						1.15		0.51	
	32.0		88.33	2.80	0.08			32.00	2.55	0.04			9.2				32.0	88.33	09.2					0.42		0.20	
	34.0		88.23	2.90	0.11			34.00	2.70	0.01			9.2				34.0	88.23	09.2					0.64		0.05	
	36.0		88.23	2.90	-0.01			36.00	2.70	0.02			9.2											-0.07		0.10	
	39.0		88.08	3.05	-0.07			39.00	2.75	-0.05			9.2											-0.59		-0.37	
	42.0		88.33	2.80	0.00			42.00	2.60	0.04			9.2											0.00		0.31	
	45.0		88.33	2.80	0.22			45.00	2.50	0.07			9.2											1.85		0.53	
	48.0		88.93	2.20	0.45			48.00	2.00	0.20			9.2											2.48		1.00	#REF!
	50.0		89.03	2.1	0.53			50.00	1.80	0.15			9.2											2.23		0.54	
	52.0		89.13	2.00	0.33			52.00	1.75	0.19			9.2											1.65		0.83	
	55.0		88.88	2.25	0.39			55.00	2.00	0.13			9.2											2.63		0.78	
	58.0		88.93	2.20	0.20			58.00	2.00	0.02			9.2											1.32		0.12	
	61.0		88.93	2.20	0.17			61.00	2.00	0.04			9.2											1.12		0.24	
	64.0		89.13	2.00	0.20			64.00	1.85	0.05			9.2											1.20		0.28	
	67.0		89.43	1.70	0.15			67.00	1.20	0.01			7.2											0.77		0.04	
	70.0		90.13	1.00	0.11			70.00	0.65	-0.05			6.2											0.25		-0.07	
	71.5		90.48	0.65	0.01			71.50	0.40	0.00			2.1											0.01		0.00	
LWE	72.6	12.98	91.13	0.00	0.00			72.50	0.00	0.00			1.2											0.00		0.00	
	75.0	12.74	91.13		9.99																						
	80.0	11.88	91.37		9.99																						
	85.0	11.16	92.25		9.99																						
	90.0	10.18	92.95		9.99																						
	92.6	9.52	93.93		9.99																						
	100.0	8.13	94.59		9.99																						
	120.0	6.97	95.98		9.99																						
	140.0	8.35	97.14		9.99																						
	160.0	9.00	95.76		9.99																						
	180.0	8.68	95.11		9.99																						
	200.0	8.22	95.43		9.99																						

dist pin		bed profile				dist pin		bed profile		
(ft)	Qm99	low -Q	high-Q	mid-Q		(ft)	Qm99	low -Q	high-Q	mid-Q
1.0	94.30					1.0	94.30	94.30	94.30	94.30
3.0	94.03					3.0	94.03	94.03	94.03	94.03
5.0	93.29					5.0	93.29	93.29	93.29	93.29
7.0	93.01			96.59		7.0	93.01	96.59	96.59	96.59
9.0	92.88					9.0	92.88	92.88	92.88	92.88
11.0	92.80			0.00		11.0	92.80	0.00	0.00	0.00
13.4	91.13			0.00		13.4	91.13	0.00	0.00	0.00
13.6	89.48			0.00		13.6	89.48	0.00	0.00	0.00
13.7	89.53			0.00		13.7	89.53	0.00	0.00	0.00
15.5	89.73			-0.20		15.5	89.73	-0.20	-0.20	-0.20
17.0	89.78			-0.15		17.0	89.78	-0.15	-0.15	-0.15
17.2	90.33			-0.19		17.2	90.33	-0.19	-0.19	-0.19
19.7	90.53			0.00		19.7	90.53	0.00	0.00	0.00
21.0	91.63			0.00		21.0	91.63	0.00	0.00	0.00
21.9	91.33			-0.09		21.9	91.33	-0.09	-0.09	-0.09
22.0	89.93			-0.06		22.0	89.93	-0.06	-0.06	-0.06
25.0	89.43			-0.08		25.0	89.43	-0.08	-0.08	-0.08
27.0	89.23			-0.13		27.0	89.23	-0.13	-0.13	-0.13
28.0	88.53					28.0	88.53	88.53	88.53	88.53
30.0	88.83			-0.10		30.0	88.83	-0.10	-0.10	-0.10
32.0	88.33			-0.04		32.0	88.33	-0.04	-0.04	-0.04
34.0	88.23			-0.01		34.0	88.23	-0.01	-0.01	-0.01
	88.23									
	88.08									
	88.33									
	88.33									

Sycan River INSTREAM FLOW STUDY

Reach: Lower Site: SY2

Transect: 5

Dist. Offset (ft)

	Date	Elev. (ft)	Q (cfs)	BS of BM	HI	FS	HP	FS (final)		HI (final)	FS	ROD	RWSE			HI	FS	ROD	LWSE
WSE 1 (ft)	18-May-00	92.57	239.69							99.98	9.81	2.39	92.56			99.98	9.95	2.55	92.56
WSE 2 (ft)	26-Jun-00	91.19	18.47							100.96	9.76	0.00	91.20			100.96	9.79	0.00	91.17
WSE 3 (ft)	4-Oct-00	90.96	6.83							103.84	13.93	1.04	90.95			103.84	13.58	0.70	90.96

	Distance (ft)	FS (ft)	Elevation (ft)	Depth 1 (ft)	Vel 1 (ft/sec)	Depth 2 (ft)	Vel 2 (ft/sec)	Distance (ft)	Depth 3 (ft)	Vel 3 (ft/sec)	Depth 4 (ft)	Vel 4 (ft/sec)	Substrate Code	Embed.	Substrate Code	Embed.		Dist. Pin (ft)	Bed Elev. (ft)	Substrate Code	Vel 1 (ft/sec)	Vel 2 (ft/sec)	Vel 3 (ft/sec)	Vel 4 (ft/sec)		QI1 (cfs)	QI2 (cfs)	QI3 (cfs)	QI4 (cfs)
	1.0	6.71	94.25		9.99													1.0	94.25	00.0									
	3.0	7.18	93.78		9.99													3.0	93.78	00.0									
	5.0	7.84	93.12		9.99													5.0	93.12	00.0									
	7.0	7.80	93.16		9.99													7.0	93.16										
	9.0	8.21	92.75		9.99													9.0	92.75	00.0									
RWE	11.3	9.76	91.19	0.00	0.00			11.30	1.25	0.00			2.1					11.3	91.19	02.1						0.00		0.00	
	11.5		89.59	1.60	0.03			11.50	1.25	-0.04			2.1					11.5	89.59	02.1						0.04		-0.04	
	13.0		89.49	1.70	-0.05			13.00	1.40	-0.05			2.1					13.0	89.49	02.1						-0.19		-0.16	
	16.0		89.69	1.50	-0.07			16.00	1.25	0.00			2.1					16.0	89.69	02.1						-0.32		0.00	
	19.0		89.59	1.60	-0.10			19.00	1.40	0.00			2.7					19.0	89.59	02.7						-0.48		0.00	
	22.0		89.39	1.80	-0.10			22.00	1.50	0.04			7.2					22.0	89.39	07.2						-0.54		0.18	
	25.0		88.89	2.30	-0.10			25.00	1.80	0.00			8.2					25.0	88.89	08.2						-0.69		0.00	
	28.0		88.59	2.60	-0.09			28.00	2.35	0.00			9.2					28.0	88.59	09.2						-0.70		0.00	
	31.0		88.69	2.50	0.01			31.00	2.35	-0.05			9.2					31.0	88.69	09.2						0.08		-0.35	
	34.0		88.39	2.80	0.12			34.00	2.55	0.00			9.2					34.0	88.39	09.2						0.97		0.00	
	37.0		88.49	2.70	0.16			37.00	2.45	0.08			9.2					37.0	88.49	09.2						1.26		0.59	
	40.0		88.59	2.60	0.36			40.00	2.40	0.04			9.2					40.0	88.59	09.2						2.77		0.29	
	43.0		88.59	2.60	0.39			43.00	2.55	0.11			9.2					43.0	88.59	09.2						3.04		0.84	
	46.0		88.79	2.40	0.49			46.00	2.15	0.11			9.2					46.0	88.79	09.2						3.53		0.71	
	49.0		88.79	2.40	0.29			49.00	2.20	0.25			9.2					49.0	88.79							2.09		1.65	
	52.0		88.79	2.40	0.45			52.00	2.10	0.23			9.2					52.0	88.79	09.2						3.24		1.45	
	55.0		89.09	2.10	0.39			55.00	1.80	0.15			9.2					55.0	89.09	09.2						2.46		0.81	
	58.0		89.19	2.00	0.29			58.00	1.80	0.16			9.2													1.74		0.86	
	61.0		89.59	1.60	0.06			61.00	1.40	0.00			6.2													0.22		0.00	
	62.6		90.09	1.10	-0.03			62.60	1.00	0.00			2.5													-0.04		0.00	
LWE	63.2	9.79	91.19	0.00	0.00			62.90	0.00	0.00			1.2													0.00		0.00	
	65	9.42	91.54		9.99																								
	70	9.00	91.54		9.99																								
	75	7.55	91.96		9.99																								
	80	6.44	93.41		9.99																								
	84.1	5.83	94.52		9.99																								
	95	4.46	95.13		9.99																								
	110	4.21	96.50		9.99																								
	130	4.89	96.75		9.99																								
	150	5.68	96.07		9.99																								
	170	5.43	95.28		9.99																								
	190	4.66	95.53		9.99																								

dist pin		bed profile				dist pin		bed profile		
(ft)	Qm99	low -Q	high-Q	mid-Q		(ft)	Qm99	low -Q	high-Q	mid-Q
1.0	94.25					1.0	94.25	94.25	94.25	94.25
3.0	93.78					3.0	93.78	93.78	93.78	93.78
5.0	93.12					5.0	93.12	93.12	93.12	93.12
7.0	93.16			96.59		7.0	93.16	96.59	96.59	96.59
9.0	92.75					9.0	92.75	92.75	92.75	92.75
11.3	91.19			0.00		11.3	91.19	0.00	0.00	0.00
11.5	89.59			0.04		11.5	89.59	0.04	0.04	0.04
13.0	89.49			0.05		13.0	89.49	0.05	0.05	0.05
16.0	89.69			0.00		16.0	89.69	0.00	0.00	0.00
19.0	89.59			0.00		19.0	89.59	0.00	0.00	0.00
22.0	89.39			-0.04		22.0	89.39	-0.04	-0.04	-0.04
25.0	88.89			0.00		25.0	88.89	0.00	0.00	0.00
28.0	88.59			0.00		28.0	88.59	0.00	0.00	0.00
31.0	88.69			0.05		31.0	88.69	0.05	0.05	0.05
34.0	88.39			0.00		34.0	88.39	0.00	0.00	0.00
37.0	88.49			-0.08		37.0	88.49	-0.08	-0.08	-0.08
40.0	88.59			-0.04		40.0	88.59	-0.04	-0.04	-0.04
43.0	88.59			-0.11		43.0	88.59	-0.11	-0.11	-0.11
46.0	88.79					46.0	88.79	88.79	88.79	88.79
49.0	88.79			-0.25		49.0	88.79	-0.25	-0.25	-0.25
52.0	88.79			-0.23		52.0	88.79	-0.23	-0.23	-0.23
55.0	89.09			-0.15		55.0	89.09	-0.15	-0.15	-0.15
	89.19									
	89.59									
	90.09									
	91.19									

Sycan River INSTREAM FLOW STUDY

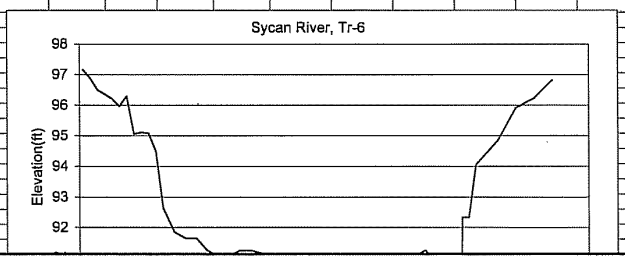
Reach: Upper Site: SY2

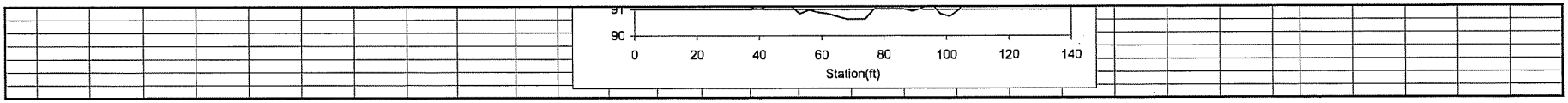
Transect: 6

Dist. Offset (ft)

	Date	Elev. (ft)	Q (cfs)	BS of BM	HI	FS	HP	FS (final)		HI (final)	FS	ROD	RWSE			HI	FS	ROD	LWSE
WSE 1 (ft)	18-May-00	93.89	239.69	3.66	102.87	3.66	99.21			101.30	10.19	2.79	93.90			101.30	10.63	3.20	93.67
WSE 2 (ft)	28-Jun-00	92.34	22.77	4.37	103.57	4.37	99.20			102.31	9.97	0.00	92.34			102.31	9.98	0.00	92.33
WSE 3 (ft)	4-Oct-00	92.04	8.72	3.60	102.80	3.60	99.20			101.45	10.23	0.82	92.04			101.45	10.75	1.34	92.04

	Distance (ft)	FS (ft)	Elevation (ft)	Depth 1 (ft)	Vel 1 (ft/sec)	Depth 2 (ft)	Vel 2 (ft/sec)	Distance (ft)	Depth 3 (ft)	Vel 3 (ft/sec)	Depth 4 (ft)	Vel 4 (ft/sec)	Substrate Code	Embed.	Substrate Code	Embed.		Dist. Pin (ft)	Bed Elev. (ft)	Substrate Code	Vel 1 (ft/sec)	Vel 2 (ft/sec)	Vel 3 (ft/sec)	Vel 4 (ft/sec)		QI1 (cfs)	QI2 (cfs)	QI3 (cfs)	QI4 (cfs)
	1.0	5.16	97.15		9.99													1.0	97.15	00.0									
	3.0	5.43	96.88		9.99													3.0	96.88	00.0									
	5.0	5.81	96.50		9.99													5.0	96.50	00.0									
	7.0	5.96	96.35		9.99													7.0	96.35										
	9.0	6.11	96.20		9.99													9.0	96.20	00.0									
	11.0	6.36	95.95		9.99													11.0	95.95	00.0									
	13.0	6.02	96.29		9.99																								
	15.0	7.26	95.05		9.99																								
	17.0	7.21	95.10		9.99													17.0	95.10	00.0									
	19.0	7.24	95.07		9.99													19.0	95.07	00.0									
	21.0	7.82	94.49		9.99													21.0	94.49	00.0									
	23.0	9.68	92.63		9.99													23.0	92.63	00.0									
RWE	24.1	9.97	92.34	0.00	0.00			25.90	0.00	0.00			1.2					24.1	92.34	01.2						0.00		0.00	
	26.0		91.84	0.50	0.00			26.00	0.00	0.00			1.2					26.0	91.84	01.2						0.00		0.00	
	29.0		91.64	0.70	-0.03			29.00	0.40	0.00			1.2					29.0	91.64	01.2						-0.06		0.00	
	32.0		91.64	0.70	-0.03			32.00	0.60	0.00			2.1					32.0	91.64	02.1						-0.06		0.00	
	35.0		91.24	1.10	0.00			35.00	0.70	0.00			2.5					35.0	91.24	02.5						0.00		0.00	
	38.0		91.04	1.30	-0.05			38.00	1.00	0.00			2.5					38.0	91.04	02.5						-0.20		0.00	
	41.0		91.04	1.30	0.13			41.00	1.00	0.03			5.2					41.0	91.04	05.2						0.51		0.09	
	44.0		91.24	1.10	0.22			44.00	0.75	0.30			5.2					44.0	91.24	05.2						0.73		0.68	
	47.0		91.24	1.10	0.21			47.00	0.70	0.11			5.2					47.0	91.24	05.2						0.69		0.23	
	50.0		91.14	1.20	-0.03			50.00	0.90	0.00			5.2					50.0	91.14	05.2						-0.11		0.00	
	53.0		90.84	1.50	0.22			53.00	1.20	0.16			5.2					53.0	90.84	05.2						0.99		0.58	
	56.0		90.99	1.35	0.25			56.00	1.00	0.15			4.2					56.0	90.99	04.2						1.01		0.45	
	59.0		90.89	1.45	0.28			59.00	1.00	0.16			5.2					59.0	90.89	05.2						1.22		0.48	
	62.0		90.84	1.50	0.23			62.00	1.15	0.13			4.2					62.0	90.84							1.04		0.67	
	65.0		90.74	1.60	0.31			68.00	1.35	0.19			4.2					65.0	90.74	04.2						1.49		1.15	
	68.0		90.64	1.70	0.41			71.00	1.50	0.21			4.2					68.0	90.64	04.2						2.09		0.95	
	71.0		90.64	1.70	0.35			74.00	1.40	0.17			4.2													1.79		0.71	
	74.0		90.64	1.70	0.27			77.00	1.00	0.19			5.2													1.38		0.57	
	77.0		91.04	1.30	0.36			80.00	1.00	0.10			4.2													1.40		0.30	
	80.0		91.04	1.30	0.29			83.00	1.00	0.09			4.2								75					1.13		0.27	
	83.0		91.04	1.30	0.24			86.00	1.00	0.13			5.2													0.94		0.39	
	86.0		91.04	1.30	0.21			89.00	1.00	0.10			2.5													0.82		0.30	
	89.0		90.94	1.40	0.23			92.00	1.00	0.10			2.5													0.97		0.30	
	92.0		91.04	1.30	0.25			95.00	0.80	0.01			2.5													0.98		0.02	
	95		91.24	1.10	0.27			98.00	1.25	0.07			2.8													0.89		0.26	
	98		90.84	1.50	0.15			101.00	1.30	0.08			2.5													0.68		0.31	
	101		90.74	1.60	0.51			104.00	0.90	0.01			2.5													2.45		0.02	
	104		90.99	1.35	0.01			105.00	0.90	-0.03			2.5													0.03		-0.02	
	105		91.14	1.20	0.00			105.30	0.50	0.00			2.1													0.00		0.00	
LWE	105.3	9.98	92.34	0.00	0.00								2.1													0.00			
	107	8.25	92.33		9.99																								
	109	7.47	94.06		9.99																								
	115	6.41	94.84		9.99																								
	120	6.08	95.90		9.99																								
	125	5.49	96.23		9.99																								
	130	4.76	96.82		9.99																								




91
90
0
20
40
60
80
100
120
140
Station(ft)

dist pin		bed profile				dist pin		bed profile		
(ft)	Qm99	low -Q	high-Q	mid-Q		(ft)	Qm99	low -Q	high-Q	mid-Q
1.0	97.15					1.0	97.15	97.15	97.15	97.15
3.0	96.88					3.0	96.88	96.88	96.88	96.88
5.0	96.50					5.0	96.50	96.50	96.50	96.50
7.0	96.35			96.59		7.0	96.35	96.59	96.59	96.59
9.0	96.20					9.0	96.20	96.20	96.20	96.20
11.0	95.95					11.0	95.95	95.95	95.95	95.95
17.0	95.10					17.0	95.10	95.10	95.10	95.10
19.0	95.07					19.0	95.07	95.07	95.07	95.07
21.0	94.49					21.0	94.49	94.49	94.49	94.49
23.0	92.63					23.0	92.63	92.63	92.63	92.63
24.1	92.34			0.00		24.1	92.34	0.00	0.00	0.00
26.0	91.84			0.00		26.0	91.84	0.00	0.00	0.00
29.0	91.64			0.00		29.0	91.64	0.00	0.00	0.00
32.0	91.64			0.00		32.0	91.64	0.00	0.00	0.00
35.0	91.24			0.00		35.0	91.24	0.00	0.00	0.00
38.0	91.04			0.00		38.0	91.04	0.00	0.00	0.00
41.0	91.04			-0.03		41.0	91.04	-0.03	-0.03	-0.03
44.0	91.24			-0.30		44.0	91.24	-0.30	-0.30	-0.30
47.0	91.24			-0.11		47.0	91.24	-0.11	-0.11	-0.11
50.0	91.14			0.00		50.0	91.14	0.00	0.00	0.00
53.0	90.84			-0.16		53.0	90.84	-0.16	-0.16	-0.16
56.0	90.99			-0.15		56.0	90.99	-0.15	-0.15	-0.15
59.0	90.89					59.0	90.89	90.89	90.89	90.89
62.0	90.84			-0.13		62.0	90.84	-0.13	-0.13	-0.13
65.0	90.74			-0.19		65.0	90.74	-0.19	-0.19	-0.19
68.0	90.64			-0.21		68.0	90.64	-0.21	-0.21	-0.21
	90.64									
	90.64									
	91.04									
	91.04									
				0.0						

Sycan River INSTREAM FLOW STUDY

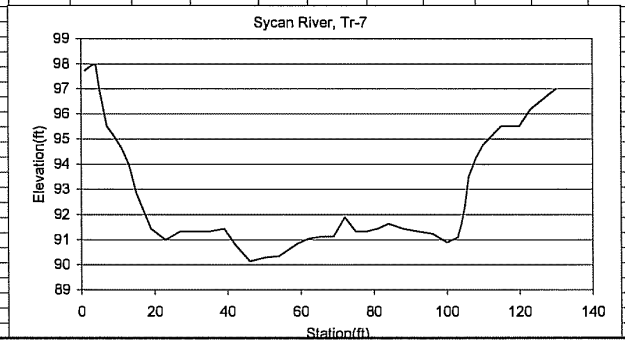
Reach: Upper Site: SY2

Transect: 7

Dist. Offset (ft)

	Date	Elev. (ft)	Q (cfs)	BS of BM	HI	FS	HP	FS (final)		HI (final)	FS	ROD	RWSE	HI	FS	ROD	MWSE	HI	FS	ROD	LWSE
WSE 1 (ft)	18-May-00	93.90	239.69	3.66	102.87	2.60	100.27			101.30	9.79	2.40	93.91					101.30	9.95	2.54	93.89
WSE 2 (ft)	28-Jun-00	92.34	20.98	4.37	103.57	3.30	100.27			102.95	10.62	0.00	92.33					102.95	10.61	0.00	92.34
WSE 3 (ft)	4-Oct-00	92.05	6.39	3.60	102.80	2.52	100.28			101.45	10.43	1.02	92.04					101.45	10.15	0.75	92.05

	Distance	FS	Elevation	Depth 1	Vel 1	Depth 2	Vel 2	Distance	Depth 3	Vel 3	Depth 4	Vel 4	Substrate	Embed.	Substrate	Embed.		Dist. Pin	Bed Elev.	Substrate	Vel 1	Vel 2	Vel 3	Vel 4		QI1	QI2	QI3	QI4
	(ft)	(ft)	(ft)	(ft)	(ft/sec)	(ft)	(ft/sec)	(ft)	(ft)	(ft/sec)	(ft)	(ft/sec)	Code		Code			(ft)	(ft)	Code	(ft/sec)	(ft/sec)	(ft/sec)	(ft/sec)		(cfs)	(cfs)	(cfs)	(cfs)
	1.0	5.23	97.72		9.99													1.0	97.72	00.0									
	3.0	5.00	97.95		9.99													3.0	97.95	00.0									
	4.0	4.99	97.96		9.99													4.0	97.96	00.0									
	5.0	6.02	96.93		9.99													5.0	96.93	00.0									
	7.0	7.46	95.49		9.99													7.0	95.49										
	9.0	7.86	95.09		9.99													9.0	95.09	00.0									
	11.0	8.33	94.62		9.99													11.0	94.62	00.0									
	13.0	8.98	93.97		9.99																								
	15.0	10.10	92.85		9.99																								
RWE	16.4	10.62	92.34	0.00	0.00			16.90	0.00	0.00			1.2					16.4	92.34	01.2						0.00		0.00	
	19.0		91.44	0.90	0.17			19.00	0.75	0.05			2.5					19.0	91.44	02.5						0.50		0.11	
	23.0		90.99	1.35	0.21			23.00	1.00	0.12			2.5					23.0	90.99	02.5						1.13		0.48	
	27.0		91.34	1.00	0.19			27.00	0.75	0.15			5.2					27.0	91.34	05.2						0.76		0.45	
	31.0		91.34	1.00	0.35			31.00	0.70	0.16			5.2					31.0	91.34	05.2						1.40		0.45	
	35.0		91.34	1.00	0.31			35.00	0.70	0.14			7.2					35.0	91.34	07.2						1.24		0.39	
	39.0		91.44	0.90	0.23			39.00	0.70	0.10			6.2					39.0	91.44	06.2						0.72		0.25	
	42.0		90.79	1.55	0.12			42.00	1.20	0.10			9.2					42.0	90.79	09.2						0.65		0.42	
	46.0		90.14	2.20	0.29			46.00	1.85	0.02			9.2					46.0	90.14	09.2						2.55		0.15	
	50.0		90.29	2.05	0.24			50.00	1.80	0.08			2.9					50.0	90.29	02.9						1.97		0.58	
	54.0		90.34	2.00	0.23			54.00	1.60	0.10			2.5					54.0	90.34	02.5						2.07		0.72	
	59.0		90.84	1.50	0.22			59.00	1.05	0.16			2.4					59.0	90.84	02.4						1.32		0.67	
	62.0		91.04	1.30	0.23			62.00	1.10	0.10			2.4					62.0	91.04	02.4						1.05		0.39	
	66.0		91.14	1.20	0.20			66.00	0.90	0.15			2.7					66.0	91.14	02.7						0.84		0.47	
	69.0		91.14	1.20	0.22			69.00	1.00	0.08			2.7					69.0	91.14	02.7						0.79		0.24	
	72.0		91.89	0.45	0.32			72.00	0.70	0.08			5.2					72.0	91.89	05.2						0.43		0.17	
	75.0		91.34	1.00	0.23			75.00	0.60	0.13			2.5					75.0	91.34	02.5						0.69		0.23	
	78.0		91.34	1.00	0.24			78.00	0.60	0.06			2.6					78.0	91.34							0.72		0.11	
	81.0		91.44	0.90	0.19			81.00	0.45	0.04			2.6					81.0	91.44	02.6						0.51		0.05	
	84.0		91.64	0.70	0.17			84.00	0.40	0.04			2.5					84.0	91.64	02.5						0.42		0.06	
	88.0		91.44	0.90	0.13			88.00	0.60	0.00			2.5													0.47		0.00	
	92.0		91.34	1.00	0.15			92.00	0.70	0.01			2.6													0.60		0.03	
	96.0		91.24	1.10	0.01			96.00	0.80	0.00			2.4													0.04		0.00	
	100.0		90.89	1.45	0.04			100.00	1.10	0.03			2.4													0.20		0.12	
	103.0		91.09	1.25	-0.03			103.00	0.70	-0.10			2.1													-0.08		-0.14	
	104.0		91.64	0.70	-0.05			104.00	0.00	0.00			2.1													-0.04		0.00	
LWE	105.0	10.61	92.34	0.00	0.00			104.10	0.00	0.00			2.1													0.00		0.00	
	106.0	9.48	93.47		9.99																								
	108	8.72	94.23		9.99																								
	110	8.2	94.75		9.99																								
	115	7.44	95.51		9.99																								
	120	6.79	95.51		9.99																								
	123	5.96	96.16		9.99																								
	130	3.31	96.99		9.99																								



dist pln		bed profile				dist pln		bed profile		
(ft)	Qm99	low -Q	high-Q	mid-Q		(ft)	Qm99	low -Q	high-Q	mid-Q
1.0	97.72					1.0	97.72	97.72	97.72	97.72
3.0	97.95					3.0	97.95	97.95	97.95	97.95
4.0	97.96					4.0	97.96	97.96	97.96	97.96
5.0	96.93					5.0	96.93	96.93	96.93	96.93
7.0	95.49			96.59		7.0	95.49	96.59	96.59	96.59
9.0	95.09					9.0	95.09	95.09	95.09	95.09
11.0	94.62					11.0	94.62	94.62	94.62	94.62
16.4	92.34			0.00		16.4	92.34	0.00	0.00	0.00
19.0	91.44			-0.05		19.0	91.44	-0.05	-0.05	-0.05
23.0	90.99			-0.12		23.0	90.99	-0.12	-0.12	-0.12
27.0	91.34			-0.15		27.0	91.34	-0.15	-0.15	-0.15
31.0	91.34			-0.16		31.0	91.34	-0.16	-0.16	-0.16
35.0	91.34			-0.14		35.0	91.34	-0.14	-0.14	-0.14
39.0	91.44			-0.10		39.0	91.44	-0.10	-0.10	-0.10
42.0	90.79			-0.10		42.0	90.79	-0.10	-0.10	-0.10
46.0	90.14			-0.02		46.0	90.14	-0.02	-0.02	-0.02
50.0	90.29			-0.08		50.0	90.29	-0.08	-0.08	-0.08
54.0	90.34			-0.10		54.0	90.34	-0.10	-0.10	-0.10
59.0	90.84			-0.16		59.0	90.84	-0.16	-0.16	-0.16
62.0	91.04			-0.10		62.0	91.04	-0.10	-0.10	-0.10
66.0	91.14			-0.15		66.0	91.14	-0.15	-0.15	-0.15
69.0	91.14			-0.08		69.0	91.14	-0.08	-0.08	-0.08
72.0	91.89			-0.08		72.0	91.89	-0.08	-0.08	-0.08
75.0	91.34					75.0	91.34	91.34	91.34	91.34
78.0	91.34			-0.06		78.0	91.34	-0.06	-0.06	-0.06
81.0	91.44			-0.04		81.0	91.44	-0.04	-0.04	-0.04
84.0	91.64			-0.04		84.0	91.64	-0.04	-0.04	-0.04
	91.44									
	91.34									
	91.24									
	90.89									
				0.0						

Sycan River INSTREAM FLOW STUDY

Reach: Upper Site: SY2

Transect: 8

Dist. Offset (ft)

	Date	Elev. (ft)	Q (cfs)	BS of BM	HI	FS	HP	FS (final)		HI (final)	FS	ROD	RWSE	HI	FS	ROD	MWSE	HI	FS	ROD	LWSE
WSE 1 (ft)	18-May-00	93.94	239.69	3.49	103.06	3.50	99.56			102.65	9.86	1.14	93.93					102.65	11.00	2.29	93.94
WSE 2 (ft)	28-Jun-00	92.35	23.76	2.19	102.91	3.33	99.58			102.29	9.94	0.00	92.35					102.29	9.95	0.00	92.34
WSE 3 (ft)	4-Oct-00	92.06	7.53	3.64	103.21	3.64	99.57			102.56	11.11	0.61	92.05					102.56	11.67	1.17	92.06

	Distance (ft)	FS (ft)	Elevation (ft)	Depth 1 (ft)	Vel 1 (ft/sec)	Depth 2 (ft)	Vel 2 (ft/sec)	Distance (ft)	Depth 3 (ft)	Vel 3 (ft/sec)	Depth 4 (ft)	Vel 4 (ft/sec)	Substrate Code	Embed.	Substrate Code	Embed.		Dist. Pin (ft)	Bed Elev. (ft)	Substrate Code	Vel 1 (ft/sec)	Vel 2 (ft/sec)	Vel 3 (ft/sec)	Vel 4 (ft/sec)		QI1 (cfs)	QI2 (cfs)	QI3 (cfs)	QI4 (cfs)
	1.0	5.67	96.62															1.0	96.62	00.0									
	3.0	6.17	96.12															3.0	96.12	00.0									
	6.0	6.61	95.68															6.0	95.68	00.0									
	9.0	7.05	95.24															9.0	95.24	00.0									
	12.0	7.42	94.87															12.0	94.87										
	15.0	7.90	94.39															15.0	94.39	00.0									
	18.0	8.57	93.72															18.0	93.72	00.0									
	20.0	9.53	92.76															20.0	92.76	00.0									
RWI	21.1	10.90	92.35	0.00	0.00			21.10	1.00	0.00			2.1					21.1	92.35	02.1						0.00		0.00	
	21.3		91.10	1.25	0.03			21.30	0.90	0.01			2.5					21.3	91.10	02.5						0.04		0.01	
	23.0		91.05	1.30	0.19			23.00	1.00	0.13			5.2					23.0	91.05	05.2						0.70		0.37	
	27.0		91.15	1.20	0.23			27.00	0.90	0.14			2.6					27.0	91.15	02.6						1.10		0.50	
	31.0		90.95	1.40	0.26			31.00	1.10	0.13			2.5					31.0	90.95	02.5						1.46		0.57	
	35.0		91.10	1.25	0.21			35.00	0.80	0.12			2.7					35.0	91.10	02.7						1.05		0.38	
	39.0		91.20	1.15	0.27			39.00	0.90	0.08			2.6					39.0	91.20	02.6						1.24		0.29	
	43.0		91.20	1.15	0.22			43.00	0.80	0.11			2.6					43.0	91.20	02.6						1.01		0.35	
	47.0		91.25	1.10	0.27			47.00	0.65	0.09			2.6					47.0	91.25	02.6						1.19		0.23	
	51.0		91.05	1.30	0.35			51.00	0.90	0.16			2.6					51.0	91.05	02.6						1.82		0.58	
	55.0		90.85	1.50	0.23			55.00	1.25	0.14			2.7					55.0	90.85	02.7						1.36		0.70	
	59.0		90.60	1.75	0.27			59.00	1.50	0.14			2.8					59.0	90.60	02.8						1.89		0.84	
	63.0		90.85	1.50	0.29			63.00	1.20	0.15			2.7					63.0	90.85	02.7						1.74		0.72	
	67.0		91.05	1.30	0.30			67.00	1.00	0.12			2.7					67.0	91.05	02.7						1.56		0.48	
	71.0		91.15	1.20	0.20			71.00	0.90	0.08			2.7					71.0	91.15	02.7						0.96		0.29	
	75.0		91.15	1.20	0.21			75.00	0.90	0.03			2.7					75.0	91.15	02.7						1.01		0.11	
	79.0		91.45	0.90	0.21			79.00	0.55	0.06			2.7					79.0	91.45							0.76		0.13	
	83.0		91.25	1.10	0.71			83.00	0.90	0.10			2.6					83.0	91.25	02.6						3.12		0.36	
	87.0		91.25	1.10	0.15			87.00	0.80	0.08			2.5					87.0	91.25	02.5						0.66		0.26	
	91.0		91.10	1.25	0.21			91.00	0.95	0.13			2.5													1.05		0.49	
	95.0		91.05	1.30	0.15			95.00	1.10	0.06			2.5													0.78		0.26	
	99.0		90.95	1.40	0.00			99.00	1.00	-0.02			2.5													0.00		-0.08	
	103.0		90.85	1.50	-0.11			103.00	1.10	-0.06			2.4													-0.58		-0.23	
	106.0		91.15	1.20	-0.06			106.00	0.90	-0.04			2.4													-0.18		-0.09	
LWE	108.0	10.89	92.35	0.00	0.00			108.00	0.00	0.00			2.1													0.00		0.00	
	109.0	9.35	92.94		9.99																								
	112.0	8.4	93.89		9.99																								
	115.0	7.74	94.55		9.99																								
	118	7.27	95.02		9.99																								
	121	6.99	95.30		9.99																								
	124	6.63	95.66		9.99																								
	130	4.41	95.66		9.99																								

dist pin (ft)	Qm99	bed profile low -Q	high-Q	mid-Q
1.0	96.62			
3.0	96.12			
6.0	95.68			
9.0	95.24			
12.0	94.87			96.59
15.0	94.39			
18.0	93.72			
20.0	92.76			
21.1	92.35			0.00
21.3	91.10			-0.01
23.0	91.05			-0.13
27.0	91.15			-0.14
31.0	90.95			-0.13
35.0	91.10			-0.12
39.0	91.20			-0.08
43.0	91.20			-0.11
47.0	91.25			-0.09
51.0	91.05			-0.16
55.0	90.85			-0.14
59.0	90.60			-0.14
63.0	90.85			-0.15
67.0	91.05			-0.12
71.0	91.15			-0.08
75.0	91.15			
79.0	91.45			-0.06
83.0	91.25			-0.10
87.0	91.25			-0.08
	91.10			
	91.05			
	90.95			
	90.85			

dist pin (ft)	Qm99	bed profile low -Q	high-Q	mid-Q
1.0	96.62	96.62	96.62	96.62
3.0	96.12	96.12	96.12	96.12
6.0	95.68	95.68	95.68	95.68
9.0	95.24	95.24	95.24	95.24
12.0	94.87	96.59	96.59	96.59
15.0	94.39	94.39	94.39	94.39
18.0	93.72	93.72	93.72	93.72
20.0	92.76	92.76	92.76	92.76
21.1	92.35	0.00	0.00	0.00
21.3	91.10	-0.01	-0.01	-0.01
23.0	91.05	-0.13	-0.13	-0.13
27.0	91.15	-0.14	-0.14	-0.14
31.0	90.95	-0.13	-0.13	-0.13
35.0	91.10	-0.12	-0.12	-0.12
39.0	91.20	-0.08	-0.08	-0.08
43.0	91.20	-0.11	-0.11	-0.11
47.0	91.25	-0.09	-0.09	-0.09
51.0	91.05	-0.16	-0.16	-0.16
55.0	90.85	-0.14	-0.14	-0.14
59.0	90.60	-0.14	-0.14	-0.14
63.0	90.85	-0.15	-0.15	-0.15
67.0	91.05	-0.12	-0.12	-0.12
71.0	91.15	-0.08	-0.08	-0.08
75.0	91.15	91.15	91.15	91.15
79.0	91.45	-0.06	-0.06	-0.06
83.0	91.25	-0.10	-0.10	-0.10
87.0	91.25	-0.08	-0.08	-0.08

Sycan River INSTREAM FLOW STUDY

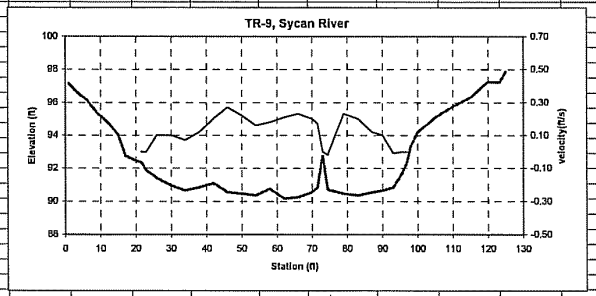
Reach: Upper Site: SY2

Transect: 9

Dist. Offset (ft)

	Date	Elev. (ft)	Q (cfs)	BS of BM	HI	FS	HP	FS (final)		HI (final)	FS	ROD	RWSE	HI	FS	ROD	MWSE	HI	FS	ROD	LWSE
WSE 1 (ft)	18-May-00	93.94	239.69	3.49	103.06	3.50	99.56			102.65	9.86	1.14	93.93					102.65	11.00	2.29	93.94
WSE 2 (ft)	28-Jun-00	92.35	18.89	2.19	102.91	3.33	99.58			102.29	9.94	0.00	92.35					102.29	9.95	0.00	92.34
WSE 3 (ft)	4-Oct-00	92.06	5.82	3.64	103.21	3.64	99.57			102.56	11.11	0.61	92.06					102.56	11.67	1.17	92.06

	Distance (ft)	FS (ft)	Elevation (ft)	Depth 1 (ft)	Vel 1 (ft/sec)	Depth 2 (ft)	Vel 2 (ft/sec)	Distance (ft)	Depth 3 (ft)	Vel 3 (ft/sec)	Depth 4 (ft)	Vel 4 (ft/sec)	Substrate Code	Embed.	Substrate Code	Embed.		Dist. Pin (ft)	Bed Elev. (ft)	Substrate Code	Vel 1 (ft/sec)	Vel 2 (ft/sec)	Vel 3 (ft/sec)	Vel 4 (ft/sec)		Ql1 (cfs)	Ql2 (cfs)	Ql3 (cfs)	Ql4 (cfs)
	1.0	5.15	97.14															1.0	97.14	00.0									
	3.0	5.62	96.67															3.0	96.67	00.0									
	6.0	6.13	96.16															6.0	96.16	00.0									
	9.0	6.95	95.34															9.0	95.34	00.0									
	12.0	7.52	94.77															12.0	94.77										
	15.0	8.25	94.04															15.0	94.04	00.0									
	17.0	9.55	92.74															17.0	92.74	00.0									
	20.0	9.84	92.45															20.0	92.45	00.0									
RWE	21.6	9.94	92.35	0.00	0.00			21.70	0.00	0.00			1.2					21.6	92.35	01.2						0.00		0.00	
	23.0		91.85	0.50	0.00			23.00	0.20	0.00			1.2					23.0	91.85	01.2						0.00		0.00	
	26.0		91.40	0.95	0.10			26.00	0.70	0.00			2.4					26.0	91.40	02.4						0.33		0.00	
	30.0		90.95	1.40	0.10			30.00	1.15	0.02			2.6					30.0	90.95	02.6						0.56		0.09	
	34.0		90.65	1.70	0.07			34.00	1.50	0.01			2.5					34.0	90.65	02.5						0.48		0.06	
	38.0		90.85	1.50	0.12			38.00	1.30	0.08			5.2					38.0	90.85	05.2						0.72		0.42	
	42.0		91.10	1.25	0.20			42.00	1.20	0.10			2.5					42.0	91.10	02.5						1.00		0.48	
	46.0		90.55	1.80	0.27			46.00	1.40	0.13			2.9					46.0	90.55	02.9						1.94		0.73	
	50.0		90.45	1.90	0.22			50.00	1.60	0.13			9.2					50.0	90.45	09.2						1.67		0.83	
	54.0		90.35	2.00	0.16			54.00	1.50	0.05			9.2					54.0	90.35	09.2						1.26		0.30	
	58.0		90.75	1.60	0.18			58.00	1.80	0.04			8.2					58.0	90.75	08.2						1.15		0.29	
	62.0		90.15	2.20	0.21			62.00	1.80	0.08			2.7					62.0	90.15	02.7						1.85		0.58	
	66.0		90.25	2.10	0.23			66.00	1.70	0.05			2.8					66.0	90.25	02.8						1.93		0.34	
	70.0		90.55	1.80	0.20			70.00	1.10	0.13			8.2					70.0	90.55	08.2						0.99		0.39	
	71.5		90.85	1.50	0.17			71.50	0.00	0.00			8.2					71.5	90.85	08.2						0.38		0.00	
	73.0		92.75	-0.40	0.00			73.00	0.00	0.00			8.2					73.0	92.75	08.2						0.00		0.00	
	74.4		90.70	1.65	-0.02			74.40	1.30	0.02			8.2					74.4	90.70							-0.10		0.08	
	79.0		90.45	1.90	0.23			79.00	1.60	0.08			2.6					79.0	90.45	02.6						1.88		0.55	
	83.0		90.35	2.00	0.20			83.00	1.55	0.08			2.6					83.0	90.35	02.6						1.60		0.50	
	87.0		90.55	1.80	0.12			87.00	1.45	0.04			2.6													0.76		0.20	
	90.0		90.65	1.70	0.10			90.00	1.30	-0.02			2.6													0.51		-0.08	
	93.0		90.85	1.50	-0.01			93.00	1.10	0.02			2.1													-0.04		0.06	
	95.5		91.65	0.70	0.00			95.50	0.00	0.00			1.2													0.00		0.00	
LWE	96.9	9.95	92.35	0.00	0.00			95.60	0.00	0.00			1.2													0.00		0.00	
	98.0	8.96	93.33																										
	100.0	8.12	94.17																										
	105.0	7.2	95.09																										
	110	6.55	95.74																										
	115	5.98	96.31																										
	120	5.04	97.25																										
	123.4	4.42	97.25																										
	125	2.08	97.87																										



dist pin		bed profile			dist pin		bed profile		
(ft)	Qm99	low -Q	high-Q	mid-Q	(ft)	Qm99	low -Q	high-Q	mid-Q
1.0	97.14				1.0	97.14	97.14	97.14	97.14
3.0	96.67				3.0	96.67	96.67	96.67	96.67
6.0	96.16				6.0	96.16	96.16	96.16	96.16
9.0	95.34				9.0	95.34	95.34	95.34	95.34
12.0	94.77			96.59	12.0	94.77	96.59	96.59	96.59
15.0	94.04				15.0	94.04	94.04	94.04	94.04
17.0	92.74				17.0	92.74	92.74	92.74	92.74
20.0	92.45				20.0	92.45	92.45	92.45	92.45
21.6	92.35			0.00	21.6	92.35	0.00	0.00	0.00
23.0	91.85			0.00	23.0	91.85	0.00	0.00	0.00
26.0	91.40			0.00	26.0	91.40	0.00	0.00	0.00
30.0	90.95			-0.02	30.0	90.95	-0.02	-0.02	-0.02
34.0	90.65			-0.01	34.0	90.65	-0.01	-0.01	-0.01
38.0	90.85			-0.08	38.0	90.85	-0.08	-0.08	-0.08
42.0	91.10			-0.10	42.0	91.10	-0.10	-0.10	-0.10
46.0	90.55			-0.13	46.0	90.55	-0.13	-0.13	-0.13
50.0	90.45			-0.13	50.0	90.45	-0.13	-0.13	-0.13
54.0	90.35			-0.05	54.0	90.35	-0.05	-0.05	-0.05
58.0	90.75			-0.04	58.0	90.75	-0.04	-0.04	-0.04
62.0	90.15			-0.08	62.0	90.15	-0.08	-0.08	-0.08
66.0	90.25			-0.05	66.0	90.25	-0.05	-0.05	-0.05
70.0	90.55			-0.13	70.0	90.55	-0.13	-0.13	-0.13
71.5	90.85			0.00	71.5	90.85	0.00	0.00	0.00
73.0	92.75				73.0	92.75	92.75	92.75	92.75
74.4	90.70			-0.02	74.4	90.70	-0.02	-0.02	-0.02
79.0	90.45			-0.08	79.0	90.45	-0.08	-0.08	-0.08
83.0	90.35			-0.08	83.0	90.35	-0.08	-0.08	-0.08
	90.55								
	90.65								
	90.85								
	91.65								

Sycan River INSTREAM FLOW STUDY

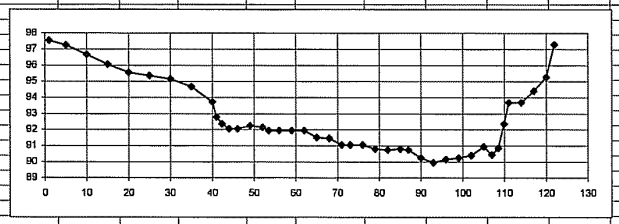
Reach: Upper Site: SY2

Transect: 10

Dist. Offset (ft)

	Date	Elev. (ft)	Q (cfs)	BS of BM	HI	FS	HP	FS (final)		HI (final)	FS	ROD	RWSE	HI	FS	ROD	MWSE	HI	FS	ROD	LWSE
WSE 1 (ft)	18-May-00	93.93	239.69	3.49	103.06	2.35	100.71	1.94		102.65	10.50	1.77	93.92					102.65	11.61	2.89	93.93
WSE 2 (ft)	28-Jun-00	92.34	21.79	2.19	102.91	2.19	100.72			102.89	10.55	0.00	92.34					102.89	10.56	0.00	92.33
WSE 3 (ft)	4-Oct-00	92.06	4.95	3.64	103.21	2.50	100.71	1.85		102.56	10.65	0.35	92.06					102.56	11.96	1.46	92.06

	Distance	FS	Elevation	Depth 1	Vel 1	Depth 2	Vel 2	Distance	Depth 3	Vel 3	Depth 4	Vel 4	Substrate	Embed.	Substrate	Embed.		Dist. Pin	Bed Elev.	Substrate	Vel 1	Vel 2	Vel 3	Vel 4		Qi1	Qi2	Qi3
	(ft)	(ft)	(ft)	(ft)	(ft/sec)	(ft)	(ft/sec)	(ft)	(ft)	(ft/sec)	(ft)	(ft/sec)	Code		Code			(ft)	(ft)	Code	(ft/sec)	(ft/sec)	(ft/sec)	(ft/sec)		(cfs)	(cfs)	(cfs)
	1.0	5.36	97.53															1.0	97.53	00.0								
	5.0	5.65	97.24															5.0	97.24	00.0								
	10.0	6.23	96.66															10.0	96.66	00.0								
	15.0	6.85	96.04															15.0	96.04	00.0								
	20.0	7.35	95.54															20.0	95.54									
	25.0	7.55	95.34															25.0	95.34	00.0								
	30.0	7.74	95.15															30.0	95.15	00.0								
	35.0	8.24	94.65															35.0	94.65	00.0								
	40.0	9.17	93.72															40.0	93.72	00.0								
	41.0	10.11	92.78															41.0	92.78	00.0								
RWE	42.3	10.55	92.34	0.00	0.00								1.2					42.3	92.34	01.2						0.00		
	44.0		92.04	0.30	0.00								1.2					44.0	92.04	01.2						0.00		
	46.0		92.04	0.30	0.00								1.2					46.0	92.04	01.2						0.00		
	49.0		92.24	0.10	0.00								1.2					49.0	92.24	01.2						0.00		
	52.0		92.14	0.20	0.07								1.2					52.0	92.14	01.2						0.03		
	53.5		91.94	0.40	0.02			53.50	0.00	0.00			1.7					53.5	91.94	01.7						0.02		0.00
	56.0		91.94	0.40	0.21			56.00	0.10	0.00			1.7					56.0	91.94	01.7						0.23		0.00
	59.0		91.94	0.40	0.65			59.00	0.05	0.00			1.7					59.0	91.94	01.7						0.78		0.00
	62.0		91.94	0.40	0.26			62.00	0.20	0.12			1.8					62.0	91.94	01.8						0.31		0.07
	65.0		91.49	0.85	0.38			65.00	0.20	0.03			8.7					65.0	91.49	08.7						0.97		0.02
	68.0		91.44	0.90	0.07			68.00	0.80	-0.01			8.7					68.0	91.44	08.7						0.19		-0.02
	71.0		91.04	1.30	0.73			71.00	1.00	0.05			7.8					71.0	91.04	07.8						2.37		0.13
	73.0		91.04	1.30	0.31			73.00	1.00	0.14			7.8					73.0	91.04	07.8						1.01		0.35
	76.0		91.04	1.30	0.29			76.00	1.25	0.15			7.8					76.0	91.04	07.8						1.13		0.56
	79.0		90.79	1.55	0.29			79.00	0.70	0.15			8.7					79.0	90.79							1.35		0.32
	82.0		90.74	1.60	0.43			82.00	1.25	0.10			7.6					82.0	90.74	07.6						2.06		0.38
	85.0		90.79	1.55	0.27			85.00	1.20	0.05			6.7					85.0	90.79	06.7						1.05		0.15
	87.0		90.74	1.60	0.75			87.00	1.30	0.37			6.7													3.00		1.20
	90.0		90.24	2.10	0.27			90.00	1.80	0.21			7.6													1.70		1.13
	93.0		89.94	2.40	0.56			93.00	2.05	0.17			8.7													4.03		1.05
	96.0		90.14	2.20	0.11			96.00	1.90	-0.06			9.2													0.73		-0.34
	99.0		90.24	2.10	-0.05			99.00	1.80	0.00			9.2													-0.32		0.00
	102.0		90.39	1.95	-0.03			102.00	1.60	-0.08			9.2													-0.18		-0.38
	105.0		90.94	1.40	0.12			105.00	1.20	0.00			7.6													0.42		0.00
	107.0		90.44	1.90	0.26			107.00	1.60	0.10			2.6													0.86		0.28
	108.5		90.84	1.50	0.02			108.50	1.10	0.05			2.1													0.04		0.07
LWE	109.9		92.34	0.00	0.26			109.40	0.00	0.00			1.2													0.00		0.00
	111.0	9.21	93.68																									
	114.0	8.49	93.68																									
	117.0	7.63	94.40																									
	120.0	5.62	95.26																									
	122.0	5.54	97.27																									



QI4 (cfs)		dist pin (ft)	Qm99	bed profile low -Q	high-Q	mid-Q		dist pin (ft)	Qm99	bed profile low -Q	high-Q	mid-Q
		1.0	97.53					1.0	97.53	97.53	97.53	97.53
		5.0	97.24					5.0	97.24	97.24	97.24	97.24
		10.0	96.66					10.0	96.66	96.66	96.66	96.66
		15.0	96.04					15.0	96.04	96.04	96.04	96.04
		20.0	95.54			96.59		20.0	95.54	96.59	96.59	96.59
		25.0	95.34					25.0	95.34	95.34	95.34	95.34
		30.0	95.15					30.0	95.15	95.15	95.15	95.15
		35.0	94.65					35.0	94.65	94.65	94.65	94.65
		40.0	93.72					40.0	93.72	93.72	93.72	93.72
		41.0	92.78					41.0	92.78	92.78	92.78	92.78
		42.3	92.34			0.00		42.3	92.34	0.00	0.00	0.00
		44.0	92.04			0.00		44.0	92.04	0.00	0.00	0.00
		46.0	92.04			0.00		46.0	92.04	0.00	0.00	0.00
		49.0	92.24			-0.12		49.0	92.24	-0.12	-0.12	-0.12
		52.0	92.14			-0.03		52.0	92.14	-0.03	-0.03	-0.03
		53.5	91.94			0.01		53.5	91.94	0.01	0.01	0.01
		56.0	91.94			-0.05		56.0	91.94	-0.05	-0.05	-0.05
		59.0	91.94			-0.14		59.0	91.94	-0.14	-0.14	-0.14
		62.0	91.94			-0.15		62.0	91.94	-0.15	-0.15	-0.15
		65.0	91.49			-0.15		65.0	91.49	-0.15	-0.15	-0.15
		68.0	91.44			-0.10		68.0	91.44	-0.10	-0.10	-0.10
		71.0	91.04			-0.05		71.0	91.04	-0.05	-0.05	-0.05
		73.0	91.04			-0.37		73.0	91.04	-0.37	-0.37	-0.37
		76.0	91.04					76.0	91.04	91.04	91.04	91.04
		79.0	90.79			-0.17		79.0	90.79	-0.17	-0.17	-0.17
		82.0	90.74			0.06		82.0	90.74	0.06	0.06	0.06
		85.0	90.79			0.00		85.0	90.79	0.00	0.00	0.00
			90.74									
			90.24									
			89.94									
			90.14									
						#REF!						

Modified Data Deck for Lower Reach, Transect 1 (Mid Flow)

Reach : Lower
Transect : 1

```
     Klamath- Sycan River  06/28/00
Run                        Mid                                        TRANSECT 1
IOC       1100100100001000101000
QARD   3.0
QARD   4.0
QARD   5.0
QARD   6.6
QARD   9.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.8
QARD  25.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  65.0
QARD  80.0
QARD 100.0
QARD 125.0
QARD 150.0
QARD 175.0
QARD 200.0
QARD 225.0
QARD 239.7
QARD 270.0
QARD 300.0
QARD 340.0
QARD 380.0
QARD 430.0
QARD 480.0
QARD 540.0
QARD 600.0
XSEC  1.01    1000.0 1.0     88.34   0.00402
      1.01  1.097.18  3.096.84  5.095.15  7.094.28  9.093.18 11.092.89
      1.01 13.092.18 15.092.11 17.092.16 19.091.95 21.091.67 23.091.18
      1.01 23.690.79 25.089.99 26.589.49 28.589.09 30.588.99 32.589.09
      1.01 33.588.84 35.088.64 36.588.59 38.088.79 39.588.49 41.088.59
      1.01 42.588.44 44.088.49 45.088.79 46.588.39 48.088.34 49.588.54
      1.01 51.088.74 52.588.99 54.089.69 55.589.39 57.090.09 59.090.79
      1.01 60.090.91 70.091.35 80.091.62 90.091.75100.091.48110.091.21
      1.01120.090.77130.091.26140.091.87150.092.72160.093.78162.994.14
      1.01170.094.66180.094.63190.094.77200.095.01
NS    1.01       0.0       0.0       0.0       0.0       0.0       0.0
NS    1.01       0.0       0.0       0.0       0.0       0.0       0.0
NS    1.01       1.2 0.3   1.2 0.3   2.5 0.3   8.2 0.3   9.2       9.2
NS    1.01       9.2       9.1       9.8 0.3   9.8       9.8       9.1
NS    1.01       9.1       6.9       5.9       4.5       4.2       4.2
NS    1.01 0.5   2.4 0.5   2.3 0.5   2.4 0.5   2.4 0.5   2.1 0.5   1.2
NS    1.01       0.0       0.0       0.0       0.0       0.0       0.0
NS    1.01       0.0       0.0       0.0       0.0       0.0       0.0
NS    1.01       0.0       0.0       0.0       0.0
WSL   1.01     90.31     90.39     90.46     90.51     90.55     90.62
WSL   1.01     90.68     90.73     90.79     90.89     91.00     91.23
WSL   1.01     91.37     91.55     91.67     91.79     91.88     91.94
WSL   1.01     91.98     92.04     92.07     92.10     92.14     92.18
WSL   1.01     92.23     92.27     92.31     92.35     92.38     92.40
CAL1  1.01     90.79      21.8
VEL1  1.01
VEL1  1.01 0.00-0.07-0.10-0.12 0.05 0.30 0.71 0.80 0.81-0.16 1.04 0.95
VEL1  1.01 0.59 0.54 0.62 0.53 0.41 0.22 0.03 0.08-0.11-0.06-0.04 0.00
VEL1  1.01
VEL1  1.01
CAL2  1.01     92.08     239.7
VEL2  1.01
VEL2  1.01
VEL2  1.01
VEL2  1.01
VEL2  1.01
CAL3  1.01     90.50       6.6
VEL3  1.01
VEL3  1.01
VEL3  1.01
VEL3  1.01
VEL3  1.01
ENDJ
```

Modified Data Deck for Lower Reach, Transect 2 (Mid Flow)

Reach : Lower
Transect : 2

```
     Klamath- Sycan River  06/28/00
Run                        Mid                                        TRANSECT 2
IOC       11001001000010001010 00
QARD   3.0
QARD   4.0
QARD   5.0
QARD   6.6
QARD   9.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.8
QARD  25.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  65.0
QARD  80.0
QARD 100.0
QARD 125.0
QARD 150.0
QARD 175.0
QARD 200.0
QARD 225.0
QARD 239.7
QARD 270.0
QARD 300.0
QARD 340.0
QARD 380.0
QARD 430.0
QARD 480.0
QARD 540.0
QARD 600.0
XSEC  1.02    1000.0 1.0     89.37   0.00402
      1.02  1.095.38  2.094.23  4.093.54  6.092.72  8.092.38 10.092.40
      1.02 12.092.24 14.091.95 16.091.73 18.091.34 20.091.13 20.891.12
      1.02 22.090.72 23.090.32 24.590.12 27.089.77 29.089.77 31.089.72
      1.02 33.089.62 35.089.92 37.090.02 39.089.82 41.089.92 43.090.32
      1.02 45.090.52 47.190.42 50.090.47 53.090.22 56.090.32 59.089.57
      1.02 62.089.52 65.089.37 68.089.62 70.089.62 71.590.87 72.589.72
      1.02 75.089.57 77.090.12 79.590.72 80.991.12 85.091.12 90.091.74
      1.02 95.091.80100.091.91110.092.18120.092.71128.393.77130.094.40
      1.02140.094.45150.094.81
NS    1.02       6.6       6.6       6.6       6.6       6.6
NS    1.02       6.6       6.6       6.6       6.6       6.6 0.3   6.6
NS    1.02 0.25  6.6 0.20  6.6 0.12  6.6       6.6       6.6       6.6
NS    1.02       6.6       6.6       6.6 0.3   6.6       6.6       6.6
NS    1.02       6.6       6.6       6.6       6.6       6.6       6.6
NS    1.02       6.6 0.7   6.6 0.8   6.6       6.6       6.6       6.6
NS    1.02 0.6   6.6 0.6   6.6 0.7   6.6 0.8   6.6       6.6       6.6
NS    1.02       6.6       6.6       6.6       6.6       6.6
NS    1.02       6.6       6.6
WSL   1.02     90.78     90.83     90.87     90.91     90.95     90.96
WSL   1.02     91.02     91.07     91.12     91.17     91.27     91.48
WSL   1.02     91.62     91.79     91.90     92.02     92.12     92.17
WSL   1.02     92.21     92.27     92.30     92.34     92.37     92.42
WSL   1.02     92.47     92.51     92.55     92.58     92.62     92.64
CAL1  1.02     91.12      21.8
VEL1  1.02                                                        0.01
VEL1  1.02 0.01 0.18 0.93 0.83 0.84 0.85 0.86 0.86 0.60 0.12 0.47 0.46
VEL1  1.02 0.61 0.55 0.30 0.32 0.36 0.22 0.15 0.13 0.09 0.15 0.09 0.13
VEL1  1.02 0.11 0.01 0.01 0.01
VEL1  1.02
CAL2  1.02     92.36     239.7
VEL2  1.02
VEL2  1.02
VEL2  1.02
VEL2  1.02
VEL2  1.02
CAL3  1.02     90.90       6.6
VEL3  1.02
VEL3  1.02
VEL3  1.02
VEL3  1.02
VEL3  1.02
ENDJ
```

Modified Data Deck for Lower Reach, Transect 3 (Mid Flow)

Reach : Lower
Transect : 3

```
     Klamath- Sycan River  06/28/00
Run                        Mid                                        TRANSECT 3
IOC       1100100100001000101000
QARD   3.0
QARD   4.0
QARD   5.0
QARD   6.6
QARD   9.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.8
QARD  25.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  65.0
QARD  80.0
QARD 100.0
QARD 125.0
QARD 150.0
QARD 175.0
QARD 200.0
QARD 225.0
QARD 239.7
QARD 270.0
QARD 300.0
QARD 340.0
QARD 380.0
QARD 430.0
QARD 480.0
QARD 540.0
QARD 600.0
XSEC  1.03    1000.0 1.0     89.37   0.00029
      1.03  1.095.75  3.094.79  5.094.59  7.093.66  9.093.26 11.092.81
      1.03 13.092.04 14.691.13 15.089.53 17.089.33 20.090.03 23.089.83
      1.03 26.090.03 29.089.83 32.090.23 35.089.63 38.089.88 39.089.73
      1.03 40.089.68 43.089.33 46.089.58 49.088.73 52.088.53 55.088.73
      1.03 58.088.73 59.089.03 61.089.83 62.588.93 65.088.93 69.088.83
      1.03 73.088.88 77.088.93 80.089.43 82.590.03 84.090.33 85.791.13
      1.03 88.091.12 90.091.58 92.091.67 94.092.49 96.092.93 98.093.20
      1.03100.094.12102.094.80103.295.01110.095.15120.095.54140.095.90
      1.03160.096.03200.095.65220.094.36240.095.00
NS    1.03       6.6       6.6       6.6       6.6       6.6       6.6
NS    1.03       6.6       6.6 0.20  6.6       6.6 .095  6.6       6.6
NS    1.03 .15   6.6 .15   6.6       6.6       6.6 .095  6.6       6.6
NS    1.03 0.15  6.6 .095  6.6       6.6       6.6 0.2   6.6 0.22  6.6
NS    1.03 0.22  6.6 0.23  6.6 0.19  6.6 0.25  6.6 0.25  6.6 0.26  6.6
NS    1.03 0.28  6.6 0.30  6.6 0.30  6.6 0.35  6.6 0.35  6.6 0.35  6.6
NS    1.03       6.6       6.6       6.6       6.6       6.6       6.6
NS    1.03       6.6       6.6       6.6       6.6       6.6       6.6
NS    1.03       6.6       6.6       6.6       6.6
WSL   1.03     90.79     90.84     90.88     90.92     90.96     90.98
WSL   1.03     91.04     91.09     91.14     91.19     91.29     91.51
WSL   1.03     91.65     91.83     91.95     92.08     92.19     92.25
WSL   1.03     92.30     92.36     92.40     92.44     92.48     92.53
WSL   1.03     92.58     92.62     92.67     92.71     92.76     92.80
CAL1  1.03     91.13      21.8
VEL1  1.03                                    0.01 0.01 0.21 0.42 0.33
VEL1  1.03 0.10 0.11 0.16 0.36 0.38 0.23 0.16 0.43 0.32 0.28 0.21 0.16
VEL1  1.03 0.12 0.14 0.16 0.16 0.10 0.09 0.12 0.07 0.07 0.03 0.01 0.01
VEL1  1.03
VEL1  1.03
CAL2  1.03     92.46     239.7
VEL2  1.03
VEL2  1.03
VEL2  1.03
VEL2  1.03
CAL3  1.03     90.90       6.6
VEL3  1.03
VEL3  1.03
VEL3  1.03
VEL3  1.03
VEL3  1.03
ENDJ
```

Modified Data Deck for Lower Reach, Transect 4 (Mid Flow)

Reach : Lower
Transect : 4

```
     Klamath- Sycan River  06/28/00
Run                        Mid                                        TRANSECT 4
IOC       11001001000010001010 00
QARD   3.0
QARD   4.0
QARD   5.0
QARD   6.6
QARD   9.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.8
QARD  25.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  65.0
QARD  80.0
QARD 100.0
QARD 125.0
QARD 150.0
QARD 175.0
QARD 200.0
QARD 225.0
QARD 239.7
QARD 270.0
QARD 300.0
QARD 340.0
QARD 380.0
QARD 430.0
QARD 480.0
QARD 540.0
QARD 600.0
XSEC  1.04    1000.0 1.0     89.37   0.00029
      1.04  1.094.30  3.094.03  5.093.29  7.093.01  9.092.88 11.092.80
      1.04 13.491.13 13.689.48 13.789.53 15.589.73 17.089.78 17.290.33
      1.04 19.790.53 21.091.63 21.991.33 22.089.93 25.089.43 27.089.23
      1.04 28.088.53 30.088.83 32.088.33 34.088.23 36.088.23 39.088.08
      1.04 42.088.33 45.088.33 48.088.93 50.089.03 52.089.13 55.088.88
      1.04 58.088.93 61.088.93 64.089.13 67.089.43 70.090.13 71.590.48
      1.04 72.691.13 75.091.13 80.091.37 85.092.25 90.092.95 92.693.93
      1.04100.094.59120.095.98140.097.14160.095.76180.095.11200.095.43
NS    1.04       6.6       6.6       6.6       6.6       6.6       6.6
NS    1.04       6.6       6.6       6.6       6.6       6.6       6.6
NS    1.04 0.12  6.6 0.08  6.6 0.08  6.6 0.10  6.6       6.6       6.6
NS    1.04       6.6       6.6       6.6       6.6 0.5   6.6 0.5   6.6
NS    1.04 0.5   6.6       6.6 0.11  6.6 .095  6.6       6.6       6.6
NS    1.04       6.6       6.6       6.6       6.6       6.6 0.25  6.6
NS    1.04       6.6       6.6       6.6       6.6       6.6       6.6
NS    1.04       6.6       6.6       6.6       6.6       6.6       6.6
WSL   1.04     90.79     90.84     90.88     90.93     90.97     90.99
WSL   1.04     91.05     91.10     91.15     91.20     91.31     91.53
WSL   1.04     91.68     91.86     91.98     92.12     92.24     92.31
WSL   1.04     92.36     92.43     92.47     92.51     92.54     92.59
WSL   1.04     92.65     92.68     92.73     92.77     92.82     92.86
CAL1  1.04     91.13      21.8
VEL1  1.04                                  0.01 0.11 0.06 0.05 0.25 0.25
VEL1  1.04 0.08 0.00 0.00 0.34 0.24 0.36 0.25 0.25 0.08 0.11-0.01-0.07
VEL1  1.04 0.01 0.22 0.45 0.53 0.33 0.39 0.20 0.17 0.20 0.15 0.11 0.01
VEL1  1.04 0.01
CAL2  1.04     92.52     239.7
VEL2  1.04
VEL2  1.04
VEL2  1.04
VEL2  1.04
CAL3  1.04     90.95       6.6
VEL3  1.04
VEL3  1.04
VEL3  1.04
VEL3  1.04
ENDJ
```

Modified Data Deck for Lower Reach, Transect 5 (Mid Flow)

Reach : Lower
Transect : 5

```
     Klamath- Sycan River  06/28/00
Run                        Mid                                        TRANSECT 5
IOC       1100100100001000101000
QARD   3.0
QARD   4.0
QARD   5.0
QARD   6.6
QARD   9.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.8
QARD  25.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  65.0
QARD  80.0
QARD 100.0
QARD 125.0
QARD 150.0
QARD 175.0
QARD 200.0
QARD 225.0
QARD 239.7
QARD 270.0
QARD 300.0
QARD 340.0
QARD 380.0
QARD 430.0
QARD 480.0
QARD 540.0
QARD 600.0
XSEC  1.05    1000.0 1.0     89.37   0.00029
      1.05  1.094.25  3.093.78  5.093.12  7.093.16  9.092.75 11.391.19
      1.05 11.589.59 13.089.49 16.089.69 19.089.59 22.089.39 25.088.89
      1.05 28.088.59 31.088.69 34.088.39 37.088.49 40.088.59 43.088.59
      1.05 46.088.79 49.088.79 52.088.79 55.089.09 58.089.19 61.089.59
      1.05 62.690.09 63.291.19 65.091.54 70.091.54 75.091.96 80.093.41
      1.05 84.194.52 95.095.13110.096.50130.096.75150.096.07170.095.28
      1.05190.095.53
NS    1.05       6.6       6.6       6.6       6.6       6.6       6.6
NS    1.05       6.6 3.0   6.6 3.0   6.6       6.6       6.6       6.6
NS    1.05       6.6       6.6       6.6       6.6       6.6       6.6
NS    1.05       6.6       6.6       6.6       6.6 0.10  6.6 0.10  6.6
NS    1.05 0.12  6.6       6.6       6.6       6.6       6.6       6.6
NS    1.05       6.6       6.6       6.6       6.6       6.6       6.6
NS    1.05       6.6
WSL   1.05     90.79     90.85     90.89     90.94     90.98     91.01
WSL   1.05     91.07     91.12     91.17     91.22     91.33     91.55
WSL   1.05     91.71     91.90     92.02     92.17     92.29     92.37
WSL   1.05     92.43     92.51     92.56     92.59     92.62     92.67
WSL   1.05     92.72     92.76     92.81     92.84     92.89     92.93
CAL1  1.05     91.19      21.8
VEL1  1.05                          0.01 0.02-0.02-0.03-0.04-0.04-0.04
VEL1  1.05-0.03 0.01 0.12 0.16 0.36 0.39 0.49 0.29 0.45 0.39 0.29 0.06
VEL1  1.05-0.03 0.01
VEL1  1.05
CAL2  1.05     92.57     239.7
VEL2  1.05
VEL2  1.05
VEL2  1.05
VEL2  1.05
CAL3  1.05     90.96       6.6
VEL3  1.05
VEL3  1.05
VEL3  1.05
VEL3  1.05
ENDJ
```

Modified Data Deck for Upper Reach, Transect 6 (Mid Flow)

Reach : Lower
Transect : 6

```
     Klamath- Sycan River  06/28/00
Run                          Mid                                        TRANSECT 6
IOC       11001001000010001010 00
QARD   3.0
QARD   4.0
QARD   5.0
QARD   6.6
QARD   9.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.8
QARD  25.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  65.0
QARD  80.0
QARD 100.0
QARD 125.0
QARD 150.0
QARD 175.0
QARD 200.0
QARD 225.0
QARD 239.7
QARD 270.0
QARD 300.0
QARD 340.0
QARD 380.0
QARD 430.0
QARD 480.0
QARD 540.0
QARD 600.0
XSEC  2.06    1000.0 1.0     90.64   0.00010
      2.06  1.097.15  3.096.88  5.096.50  7.096.35  9.096.20 11.095.95
      2.06 13.096.29 15.095.05 17.095.10 19.095.07 21.094.49 23.092.63
      2.06 24.192.34 26.091.84 29.091.64 32.091.64 35.091.24 38.091.04
      2.06 41.091.04 44.091.24 47.091.24 50.091.14 53.090.84 56.090.99
      2.06 59.090.89 62.090.84 65.090.74 68.090.64 71.090.64 74.090.64
      2.06 77.091.04 80.091.04 83.091.04 86.091.04 89.090.94 92.091.04
      2.06 95.091.24 98.090.84101.090.74104.090.99105.091.14105.392.34
      2.06107.092.33109.094.06115.094.84120.095.90125.096.23130.096.82
NS    2.06       6.6       6.6       6.6       6.6       6.6       6.6
NS    2.06       6.6       6.6       6.6       6.6       6.6       6.6
NS    2.06       6.6       6.6       6.6       6.6 .40   6.6 0.30  6.6
NS    2.06 0.20  6.6       6.6       6.6 0.15  6.6       6.6       6.6
NS    2.06       6.6       6.6       6.6 .062  6.6       6.6       6.6
NS    2.06 .053  6.6       6.6       6.6 .077  6.6       6.6       6.6
NS    2.06       6.6 0.11  6.6 .055  6.6 0.12  6.6 0.12  6.6       6.6
NS    2.06       6.6       6.6       6.6       6.6       6.6       6.6
WSL   2.06     91.81     91.90     91.96     92.04     92.13     92.19
WSL   2.06     92.23     92.28     92.34     92.39     92.46     92.59
WSL   2.06     92.69     92.86     93.00     93.18     93.37     93.50
WSL   2.06     93.62     93.73     93.84     93.89     94.00     94.07
WSL   2.06     94.16     94.22     94.30     94.38     94.47     94.57
CAL1  2.06     92.34      21.8
VEL1  2.06
VEL1  2.06 0.01 0.01-0.03-0.03 0.00-0.05 0.13 0.22 0.21-0.03 0.22 0.25
VEL1  2.06 0.28 0.23 0.31 0.41 0.35 0.27 0.36 0.29 0.24 0.21 0.23 0.25
VEL1  2.06 0.27 0.15 0.51 0.01 0.01 0.01
CAL2  2.06     93.89     239.7
VEL2  2.06
VEL2  2.06
VEL2  2.06
VEL2  2.06
CAL3  2.06     92.04       6.6
VEL3  2.06
VEL3  2.06
VEL3  2.06
VEL3  2.06
ENDJ
```

Modified Data Deck for Upper Reach, Transect 7 (Mid Flow)

Reach : Lower
Transect : 7

```
     Klamath- Sycan River  06/28/00
Run                        Mid                                        TRANSECT 7
IOC       11001001000010001010 00
QARD   3.0
QARD   4.0
QARD   5.0
QARD   6.6
QARD   9.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.8
QARD  25.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  65.0
QARD  80.0
QARD 100.0
QARD 125.0
QARD 150.0
QARD 175.0
QARD 200.0
QARD 225.0
QARD 239.7
QARD 270.0
QARD 300.0
QARD 340.0
QARD 380.0
QARD 430.0
QARD 480.0
QARD 540.0
QARD 600.0
XSEC  2.07    1000.0 1.0     90.64   0.00010
      2.07  1.097.72  3.097.95  4.097.96  5.096.93  7.095.49  9.095.09
      2.07 11.094.62 13.093.97 15.092.85 16.492.34 19.091.44 23.090.99
      2.07 27.091.34 31.091.34 35.091.34 39.091.44 42.090.79 46.090.14
      2.07 50.090.29 54.090.34 59.090.84 62.091.04 66.091.14 69.091.14
      2.07 72.091.89 75.091.34 78.091.34 81.091.44 84.091.64 88.091.44
      2.07 92.091.34 96.091.24100.090.89103.091.09104.091.64105.092.34
      2.07106.093.47108.094.23110.094.75115.095.51120.095.51123.096.16
      2.07130.096.99
NS    2.07       6.6       6.6       6.6       6.6       6.6       6.6
NS    2.07       6.6       6.6       6.6       6.6       6.6       6.6
NS    2.07       6.6 0.05  6.6       6.6       6.6 0.12  6.6       6.6
NS    2.07       6.6       6.6       6.6       6.6       6.6       6.6
NS    2.07 .035  6.6       6.6       6.6       6.6       6.6       6.6
NS    2.07       6.6 0.15  6.6 0.3   6.6 0.3   6.6 0.3   6.6       6.6
NS    2.07       6.6       6.6       6.6       6.6       6.6       6.6
NS    2.07       6.6
WSL   2.07     91.82     91.91     91.97     92.05     92.14     92.20
WSL   2.07     92.24     92.29     92.35     92.40     92.47     92.60
WSL   2.07     92.70     92.87     93.01     93.19     93.39     93.52
WSL   2.07     93.64     93.75     93.86     93.91     94.02     94.09
WSL   2.07     94.18     94.24     94.32     94.40     94.50     94.60
CAL1  2.07     92.34      21.8
VEL1  2.07                                                0.01 0.17 0.21
VEL1  2.07 0.19 0.35 0.31 0.23 0.12 0.29 0.24 0.23 0.22 0.23 0.20 0.22
VEL1  2.07 0.32 0.23 0.24 0.19 0.17 0.13 0.15 0.01 0.04-0.03-0.05 0.01
VEL1  2.07
CAL2  2.07     93.90     239.7
VEL2  2.07
VEL2  2.07
VEL2  2.07
VEL2  2.07
CAL3  2.07     92.05       6.6
VEL3  2.07
VEL3  2.07
VEL3  2.07
VEL3  2.07
ENDJ
```

Modified Data Deck for Upper Reach, Transect 8 (Mid Flow)

Reach : Lower
Transect : 8

```
     Klamath- Sycan River  06/28/00
Run                        Mid                                    TRANSECT 8
IOC       1100100100001000101000
QARD   3.0
QARD   4.0
QARD   5.0
QARD   6.6
QARD   9.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.8
QARD  25.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  65.0
QARD  80.0
QARD 100.0
QARD 125.0
QARD 150.0
QARD 175.0
QARD 200.0
QARD 225.0
QARD 239.7
QARD 270.0
QARD 300.0
QARD 340.0
QARD 380.0
QARD 430.0
QARD 480.0
QARD 540.0
QARD 600.0
XSEC  2.08    1000.0 1.0     90.64   0.00010
      2.08  1.096.62  3.096.12  6.095.68  9.095.24 12.094.87 15.094.39
      2.08 18.093.72 20.092.76 21.192.35 21.391.10 23.091.05 27.091.15
      2.08 31.090.95 35.091.10 39.091.20 43.091.20 47.091.25 51.091.05
      2.08 55.090.85 59.090.60 63.090.85 67.091.05 71.091.15 75.091.15
      2.08 79.091.45 83.091.25 87.091.25 91.091.10 95.091.05 99.090.95
      2.08103.090.85106.091.15108.092.35109.092.94112.093.89115.094.55
      2.08118.095.02121.095.30124.095.66130.095.66
NS    2.08       6.6       6.6       6.6       6.6       6.6 0.15  6.6
NS    2.08 0.14  6.6 0.13  6.6 0.12  6.6 0.11  6.6       6.6       6.6
NS    2.08       6.6       6.6       6.6       6.6       6.6 .055  6.6
NS    2.08 .075  6.6       6.6       6.6       6.6       6.6       6.6
NS    2.08       6.6 .035  6.6 0.08  6.6       6.6       6.6 0.5   6.6
NS    2.08 0.25  6.6 0.3   6.6 0.3   6.6       6.6       6.6       6.6
NS    2.08       6.6       6.6       6.6       6.6
WSL   2.08     91.82     91.91     91.97     92.05     92.14     92.20
WSL   2.08     92.24     92.29     92.35     92.40     92.47     92.60
WSL   2.08     92.71     92.88     93.02     93.20     93.39     93.53
WSL   2.08     93.65     93.76     93.87     93.92     94.03     94.10
WSL   2.08     94.19     94.25     94.33     94.42     94.51     94.61
CAL1  2.08     92.35      21.8
VEL1  2.08                                            0.01 0.03 0.19 0.23
VEL1  2.08 0.26 0.21 0.27 0.22 0.27 0.35 0.23 0.27 0.29 0.30 0.20 0.21
VEL1  2.08 0.21 0.71 0.15 0.21 0.15 0.01-0.11-0.06 0.01
VEL1  2.08
CAL2  2.08     93.94     239.7
VEL2  2.08
VEL2  2.08
VEL2  2.08
VEL2  2.08
CAL3  2.08     92.06       6.6
VEL3  2.08
VEL3  2.08
VEL3  2.08
VEL3  2.08
ENDJ
```

Modified Data Deck for Upper Reach, Transect 9 (Mid Flow)

Reach : Lower
Transect : 9

```
     Klamath- Sycan River  06/28/00
Run                        Mid                                        TRANSECT 9
IOC       1100100100001000101000
QARD    3.0
QARD    4.0
QARD    5.0
QARD    6.6
QARD    9.0
QARD   12.0
QARD   15.0
QARD   18.0
QARD   21.8
QARD   25.0
QARD   30.0
QARD   40.0
QARD   50.0
QARD   65.0
QARD   80.0
QARD  100.0
QARD  125.0
QARD  150.0
QARD  175.0
QARD  200.0
QARD  225.0
QARD  239.7
QARD  270.0
QARD  300.0
QARD  340.0
QARD  380.0
QARD  430.0
QARD  480.0
QARD  540.0
QARD  600.0
XSEC  2.09    1000.0 1.0     90.64   0.00010
      2.09  1.097.14  3.096.67  6.096.16  9.095.34 12.094.77 15.094.04
      2.09 17.092.74 20.092.45 21.692.35 23.091.85 26.091.40 30.090.95
      2.09 34.090.65 38.090.85 42.091.10 46.090.55 50.090.45 54.090.35
      2.09 58.090.75 62.090.15 66.090.25 70.090.55 71.590.85 73.092.75
      2.09 74.490.70 79.090.45 83.090.35 87.090.55 90.090.65 93.090.85
      2.09 95.591.65 96.992.35 98.093.33100.094.17105.095.09110.095.74
      2.09115.096.31120.097.25123.497.25125.097.87
NS    2.09       6.6       6.6       6.6       6.6       6.6       6.6
NS    2.09       6.6       6.6       6.6 0.20  6.6       6.6       6.6
NS    2.09 0.19  6.6       6.6 .095  6.6 .095  6.6       6.6 0.13  6.6
NS    2.09       6.6       6.6       6.6       6.6       6.6 0.12  6.6
NS    2.09 0.20  6.6       6.6       6.6       6.6       6.6 1.00  6.6
NS    2.09 1.00  6.6       6.6       6.6       6.6       6.6       6.6
NS    2.09       6.6       6.6       6.6       6.6
WSL   2.09     91.82     91.91     91.97     92.05     92.14     92.20
WSL   2.09     92.24     92.29     92.35     92.40     92.47     92.61
WSL   2.09     92.71     92.88     93.03     93.21     93.40     93.53
WSL   2.09     93.65     93.77     93.88     93.92     94.03     94.11
WSL   2.09     94.20     94.26     94.34     94.42     94.52     94.62
CAL1  2.09     92.35      21.8
VEL1  2.09                                          0.01 0.01 0.10 0.10
VEL1  2.09 0.07 0.12 0.20 0.27 0.22 0.16 0.18 0.21 0.23 0.20 0.17 0.00
VEL1  2.09-0.02 0.23 0.20 0.12 0.10-0.01 0.01 0.01
VEL1  2.09
CAL2  2.09     93.94     239.7
VEL2  2.09
VEL2  2.09
VEL2  2.09
VEL2  2.09
CAL3  2.09     92.06       6.6
VEL3  2.09
VEL3  2.09
VEL3  2.09
VEL3  2.09
ENDJ
```

Modified Data Deck for Upper Reach, Transect 10 (Mid Flow)

Reach : Lower
Transect : 10

```
     Klamath- Sycan River  06/28/00
Run                          Mid                                        TRANSECT 10
IOC        1100100100001000101000
QARD   3.0
QARD   4.0
QARD   5.0
QARD   6.6
QARD   9.0
QARD  12.0
QARD  15.0
QARD  18.0
QARD  21.8
QARD  25.0
QARD  30.0
QARD  40.0
QARD  50.0
QARD  65.0
QARD  80.0
QARD 100.0
QARD 125.0
QARD 150.0
QARD 175.0
QARD 200.0
QARD 225.0
QARD 239.7
QARD 270.0
QARD 300.0
QARD 340.0
QARD 380.0
QARD 430.0
QARD 480.0
QARD 540.0
QARD 600.0
XSEC  2.10    1000.0 1.0     90.64   0.00010
      2.10  1.097.53  5.097.24 10.096.66 15.096.04 20.095.54 25.095.34
      2.10 30.095.15 35.094.65 40.093.72 41.092.78 42.392.34 44.092.04
      2.10 46.092.04 49.092.24 52.092.14 53.591.94 56.091.94 59.091.94
      2.10 62.091.94 65.091.49 68.091.44 71.091.04 73.091.04 76.091.04
      2.10 79.090.79 82.090.74 85.090.79 87.090.74 90.090.24 93.089.94
      2.10 96.090.14 99.090.24102.090.39105.090.94107.090.44108.590.84
      2.10109.992.34111.093.68114.093.68117.094.40120.095.26122.097.27
NS    2.10       6.6       6.6       6.6       6.6       6.6       6.6
NS    2.10       6.6       6.6       6.6       6.6       6.6 0.1   6.6
NS    2.10 0.1   6.6 0.07  6.6 .053  6.6 .038  6.6 .035  6.6 .020  6.6
NS    2.10       6.6       6.6 0.06  6.6 .030  6.6 .044  6.6 .05   6.6
NS    2.10 .05   6.6       6.6 0.04  6.6 .035  6.6 .065  6.6       6.6
NS    2.10       6.6 0.3   6.6 0.3   6.6       6.6       6.6 0.1   6.6
NS    2.10 0.1   6.6       6.6       6.6       6.6       6.6       6.6
WSL   2.10     91.82     91.91     91.97     92.06     92.15     92.21
WSL   2.10     92.25     92.30     92.36     92.41     92.48     92.61
WSL   2.10     92.72     92.89     93.03     93.22     93.41     93.54
WSL   2.10     93.66     93.77     93.88     93.93     94.04     94.11
WSL   2.10     94.20     94.26     94.34     94.42     94.52     94.62
CAL1  2.10     92.34      21.8
VEL1  2.10                                                      0.01 0.01
VEL1  2.10 0.01 0.01 0.07 0.02 0.21 0.65 0.26 0.38 0.07 0.73 0.31 0.29
VEL1  2.10 0.29 0.43 0.27 0.75 0.27 0.56 0.11-0.05-0.03 0.12 0.26 0.02
VEL1  2.10 0.26
CAL2  2.10     93.93     239.7
VEL2  2.10
VEL2  2.10
VEL2  2.10
VEL2  2.10
CAL3  2.10     92.06       6.6
VEL3  2.10
VEL3  2.10
VEL3  2.10
VEL3  2.10
ENDJ
```