8-30-2008

Ex. 277-US-425

Unknown

Stream: Williamson River
Site: 626
Date: 5/11/2004
Habitat: Pool **Flow:** High

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.62	103.62		100.00
HP1			6.90	96.72
HP2			7.73	95.89
HP3			5.54	98.08
TP				
HP3	5.30	103.38		
HP2			7.50	95.88
HP1			6.66	96.72
BM			3.39	99.99

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	101.12	10.34	0.00	90.78	90.78	1077
1-R	0		103.38	12.60	0.00	90.78		
2-L	50	57	101.12	10.34	0.00	90.78	90.78	1161
2-R	63		103.38	12.60	0.00	90.78		
3-L	150	125	101.12	10.33	0.00	90.79	90.79	878
3-R	100		103.38	12.59	0.00	90.79		

Ave Q= 1038.6

Note: RWSE calc's need to be modified for TR1, TR2, and TR3
WSE slope = 0.008%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 0068
Propeller ID: na

Meter ID: 3602
Propeller ID: 3A

1

Date:
Habitat:

(1) Level Loop Survey

BM/HP (ft)
BM
HP1
HP2
HP3
TP
HP3
HP2
HP1
BM

Comr

(2) Water Surface Eleval

WSE (ft)	Ave WSE (ft)	Q (cfs)
90.41	90.42	528
90.42		
90.42	90.43	491
90.43		
90.43	90.44	470
90.44		

Ave Q= 496.5

e: HI is different for L and

(3) Meter and propeller I

Meter ID:
Propeller ID:

Meter ID:
Propeller ID:

Date: 8/19/2004
Habitat: Pool **Flow:** Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	4.31	104.31		100.00
HP1			7.59	96.72
HP2			8.43	95.88
HP3			6.24	98.07
TP				
HP3	6.11	104.18		
HP2			8.32	95.86
HP1			7.48	96.70
BM			4.19	99.99

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	100.66	10.43		90.23	90.23	
1-R	0		104.18	13.95		90.23		
2-L	50	57	100.66	10.36		90.30	90.30	469
2-R	63			10.36		90.30		
3-L	150	125	101.22	10.89		90.33	90.30	458
3-R	100			10.95		90.27		

Ave Q= 463.4

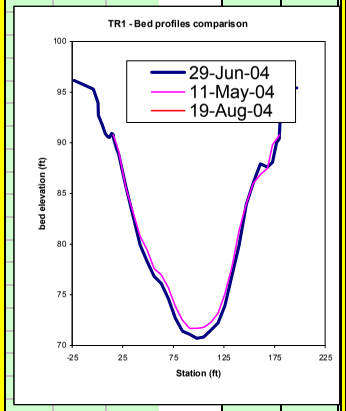
Note:
WSE slope = 0.056%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 3602
Propeller ID: 3b

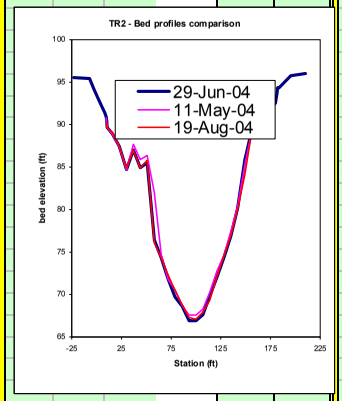
Ex. 277-US-425
Page 1 of 21

Stream:	Williamson River		11-May-04						29-Jun-04										19-Aug-04										
Site:	626			Sta	FS	Ground	Depth	Vel (ft/s		Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q	
Transect:	1			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$_{0.8}$	(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate
Habitat:	Pool		RWP	1.0						-23.0	5.23	96.15						1.3										
			RWE	15.5		90.78	0.00	0.00		-4.0	6.09	95.29						1.3										
Survey	HI	Q	mm	19.0		89.78	1.00	-0.07		0.5	7.43	93.95						1.3										
Date	(ft)	(cfs)		21.0		89.18	1.60	-0.06	RWP	1.0	8.66	92.72						1.2										
5/11/2004	101.12	1076.8	mm	28.0		85.58	5.20	0.06		5.0	9.66	91.72	Right bank HI=101.38					2.1										
6/29/2004	100.79	528.1	swfr	35.0		83.18	7.60	0.22		7.5	10.46	90.92						2.1										
8/19/2004	100.66			42.0		80.78	10.00	0.45		10.0	10.78	90.60						2.1										
				49.0		79.48	11.30	0.37		12.0	10.84	90.54						2.1										
				56.0		77.58	13.20	0.47		14.0	10.46	90.92						2.1										
Survey	R-HI	Q		63.0		76.98	13.80	0.55		15.5	10.60	90.78						2.1										
Date	(ft)	(cfs)		70.0		75.68	15.10	0.13	RWE	16.0		90.42	0.00	0.00		0.00	0.00	9.2										
6/29/2004	101.38			77.0		73.88	16.90	0.75	mm	19.0		89.37	1.05	-0.04		-0.06	-0.16	2.9										
				84.0		72.48	18.30	0.69		21.0		88.92	1.50	-0.05		-0.08	-0.53	9.2										
				91.0		71.68	19.10	1.21	mm	28.0		85.72	4.70	0.13	0.16	0.21	7.00	2.3										
				98.0		71.68	19.10	1.74	swfr	35.0		82.82	7.60	0.23	0.20	0.25	13.31	2.3										
				105.0		71.78	19.00	0.40		42.0		79.92	10.50	0.13	0.08	0.15	11.33	2.3										
				112.0		72.28	18.50	0.51		49.0		78.32	12.10	0.11	0.08	0.15	12.31	8.2										
				119.0		73.18	17.60	0.47		56.0		76.82	13.60	0.37	0.06	0.25	23.92	8.2										
				126.0		75.08	15.70	0.41		63.0		76.12	14.30	-0.19	-0.08	-0.18	-18.25	8.3										
				133.0		77.78	13.00	0.68		70.0		74.62	15.80	0.08	0.30	0.23	25.99	8.2										
			swfr	140.0		81.38	9.40	0.68		77.0		72.72	17.70	-0.13	0.52	0.19	23.01	8.2										
			mm	147.0		83.98	6.80	0.44		84.0		71.42	19.00	0.15	0.25	0.23	31.06	8.2										
				154.0		85.98	4.80	0.45		91.0		71.12	19.30	0.11	0.69	0.43	57.86	8.2										
				161.0		86.88	3.90	-0.03		98.0		70.72	19.70	0.85	0.73	0.81	111.06	8.2										
				168.0		87.48	3.30	-0.04		105.0		70.82	19.60	0.77	0.44	0.62	85.55	8.2										
				173.0		89.78	1.00	0.05		112.0		71.52	18.90	0.08	0.38	0.27	36.15	8.2										
			mm	177.0		90.38	0.40	0.00		119.0		72.22	18.20	0.09	0.27	0.22	28.23	8.2										
			LWE	180.0		90.78	0.00	0.00		126.0		73.92	16.50	0.13	0.26	0.23	26.62	8.2										
			LWP	185.0						133.0		76.92	13.50	0.04	0.14	0.12	11.66	2.8										
									swfr	140.0		79.92	10.50	0.30	0.16	0.26	19.35	2.3										
									mm	147.0		83.92	6.50	0.30	0.25	0.36	16.32	2.3										
										154.0		86.02	4.40	0.21	0.01	0.15	4.69	2.9										
										161.0		87.92	2.50	0.14	-0.02	0.09	1.54	9.2										
										168.0		87.62	2.80	-0.01	-0.01	-0.02	-0.26	2.9										
										173.0		88.07	2.35	0.01		0.02	0.16	2.9										
									mm	177.0		90.02	0.40	0.10		0.16	0.21	9.2										
									LWE	179.6		90.42	0.00	0.00		0.00	0.00	9.2										
										179.7	10.04	90.75						9.3										
										181.3	7.18	93.61						1.3										
										182.5	6.21	94.58	Left bank HI=100.79					1.3										
									LWP	185.0	5.43	95.36						1.3										
										197.0	5.37	95.42						1.3										



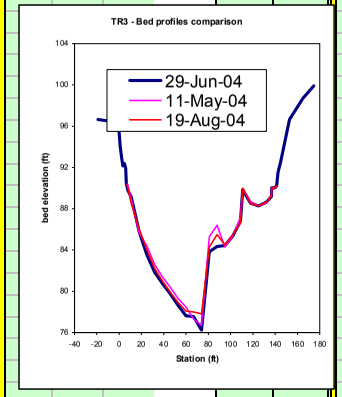
Velocity meter cable broke.
Unable to continue.

Stream:	Williamson		11-May-04						29-Jun-04										19-Aug-04									
Site:	626			Sta	FS	Ground	Depth	Vel (ft/s		Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q	
Transect:	2			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$_{0.8}$	(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate
Habitat:	Pool		RWP	1.0						-23.0	8.92	95.55						1.3										
			RWE	9.5		90.78	0.00	0.00		-7.0	9.05	95.42						1.3										
Survey	HI	Q	mm	10.5		89.68	1.10	0.03		-3.0	10.20	94.27						1.3										
Date	(ft)	(cfs)		16.0		88.88	1.90	-0.13	RWP	1.0	11.30	93.17	Right bank HI=104.47					1.3										
5/11/2004	101.12	1161.1		23.0		87.38	3.40	0.01		5.0	12.26	92.21						1.3										
6/29/2004	100.79	491.4	mm	30.0		84.68	6.10	0.37		8.0	13.01	91.46						1.3										
8/19/2004	100.66	468.7	swfr	37.0		87.68	3.10	0.85		9.5	13.53	90.94						1.2										
				44.0		85.88	4.90	0.78	RWE	10.3		90.43	0.00	0.00		0.00	0.00	9.2	RWE	10.1		90.30	0.00	0.00		0.00	0.00	
				51.0		86.38	4.40	0.50	mm	10.5		89.68	0.75	0.00		0.01	0.00	9.2		10.5		89.60	0.70	0.00		0.01	0.00	
Survey	R-HI	Q		58.0		81.98	8.80	0.15		16.0		88.93	1.50	-0.05		-0.08	-0.73	9.2		16.0		89.10	1.20	-0.02		-0.04	-0.30	
Date	(ft)	(cfs)		65.0		74.68	16.10	0.2		23.0		87.43	3.00	-0.07	-0.03	-0.08	-1.64	2.9		23.0		87.45	2.85	-0.02	-0.10	-0.10	-1.90	
6/29/2004	104.47			72.0		71.78	19.00	0.24	mm	30.0		84.73	5.70	0.20	0.08	0.20	8.03	8.2		30.0		84.90	5.40	0.15	0.12	0.18	6.77	
				79.0		70.58	20.20	0.19	swfr	37.0		87.03	3.40	0.18	0.51	0.37	8.89	7.8		37.0		87.00	3.30	0.08	0.31	0.24	5.62	
				86.0		68.68	22.10	0.23		44.0		84.93	5.50	0.77	0.63	0.72	27.58	8.2		44.0		84.90	5.40	0.03	0.34	0.21	8.11	
				93.0		67.58	23.20	1.28		51.0		85.53	4.90	0.68	0.37	0.55	18.76	8.2		51.0		85.80	4.50	0.43	0.73	0.60	19.05	
				100.0		67.58	23.20	0.77		58.0		76.43	14.00	0.29	0.21	0.28	27.79	8.2		58.0		76.10	14.20	0.00	0.00	0.00	0.00	
				107.0		68.28	22.50	0.86		65.0		74.33	16.10	0.05	0.12	0.12	13.97	8.2		65.0		74.30	16.00	0.13	0.06	0.15	16.52	
				114.0		70.28	20.50	0.44		72.0		71.83	18.60	0.12	0.01	0.09	11.63	8.3		72.0		72.30	18.00	0.05	0.00	0.05	6.21	
				121.0		72.78	18.00	0.80		79.0		69.73	20.70	1.06	0.11	0.62	89.17	8.3		79.0		70.50	19.80	0.44	0.08	0.30	42.27	
				128.0		74.58	16.20	0.38		86.0		68.63	21.80	1.00	0.23	0.64	97.86	8.3		86.0		68.80	21.50	1.00	0.08	0.59	88.69	
				135.0		77.38	13.40	0.24		93.0		66.93	23.50	0.29	0.30	0.33	53.69	8.3		93.0		67.30	23.00	0.23	0.05	0.18	29.37	
				142.0		80.38	10.40	0.11		100.0		66.93	23.50	0.09	0.25	0.21	34.90	8.3		100.0		67.10	23.20	0.19	0.41	0.33	53.94	
			swfr	149.0		85.23	5.55	0.07		107.0		67.63	22.80	0.10	0.28	0.23	36.18	8.3		107.0		67.90	22.40	0.02	0.49	0.28	43.41	
			mm	156.0		89.18	1.60	-0.07		114.0		69.83	20.60	0.05	0.40	0.26	36.98	8.3		114.0		69.30	21.00	0.20	0.35	0.31	45.47	
			mm	157.0		90.23	0.55	-0.02		121.0		72.03	18.40	0.27	0.23	0.28	36.44	8.3		121.0		72.10	18.20	0.21	0.20	0.24	31.08	
			LWE	162.1		90.78	0.00	0.00		128.0		74.33	16.10	-0.08	-0.02	-0.09	-9.76	8.3		128.0		74.50	15.80	0.19	0.52	0.39	42.77	
			LWP	183.3						135.0		76.83	13.60	0.25	0.09	0.21	20.20	3.2		135.0		76.90	13.40	0.18	0.05	0.16	14.93	
										142.0		80.13	10.30	-0.12	-0.10	-0.15	-10.93	3.2		142.0		80.00	10.30	0.13	0.01	0.10	7.08	
									swfr	149.0		85.83	4.60	-0.10	-0.27	-0.22	-7.14	3.2		149.0		84.10	6.20	0.42	0.00	0.22	9.65	
									mm	156.0		89.33	1.10	-0.06		-0.09	-0.43	2.3		156.0		89.10	1.20	0.00		0.01	0.00	
									LWE	157.3		90.43	0.00	0.00		0.00	0.00	2.9		156.7		89.30	1.00	0.00		0.01	0.00	
										157.4	10.25	90.54						1.3	LWE	157.3		90.30	0.00	0.00		0.00	0.00	
										160.9	9.93	90.86						3.1										
										161.5	9.45	91.34						1.3										
										167.3	9.28	91.51						1.3										
										169.8	9.43	91.36						1.3										
										171.7	8.17	92.62	Left bank HI=100.79					1.3										
										173.8	8.87	91.92						1.3										
										176.8	8.70	92.09						1.3										
										180.0	8.25	92.54						1.3										
										181.5	7.09	93.70						1.3										
										182.3	6.42	94.37						1.3										
									LWP	183.3	6.47	94.32						1.3										
										195.3	5.03	95.76						1.2										
										210.3	4.78	96.01						1.2										



Stream:	Williamson		11-May-04						29-Jun-04										19-Aug-04									
Site:	626			Sta	FS	Ground	Depth	Vel (ft/s		Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q	
Transect:	3			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6/0.8}$		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate
Habitat:	Pool		RWP	1.0						-19.0	7.81	96.66						1.3										
			RWE	6.9		90.39	0.40	0.00		-3.0	8.06	96.41						1.3										
Survey	HI	Q	mm	8.0		90.29	0.50	-0.19		0.0	9.10	95.37						3.1										
Date	(ft)	(cfs)		11.0		88.89	1.90	-0.09	RWP	1.0	10.34	94.13						3.1										
5/11/2004	101.12	877.8	mm	18.0		85.69	5.10	-0.12		2.3	11.53	92.94	Right bank HI=104.47					3.1										
6/29/2004	100.79	470.0	swfr	25.0		84.39	6.40	-0.12		3.5	12.32	92.15						1.3										
8/19/2004	101.22	458.0		32.0		82.59	8.20	0.57		4.7	12.09	92.38						1.3										
				39.0		81.39	9.40	0.55		6.0	12.55	91.92						1.3										
				46.0		80.39	10.40	1.04	RWE	6.4		90.44	0.00	0.00		0.00	0.00	2.9										
Survey	R-HI	Q		53.0		79.29	11.50	1.30	mm	8.0		89.79	0.65	0.00		0.00	0.00	9.2										
Date	(ft)	(cfs)		60.0		78.49	12.30	1.53		11.0		89.14	1.30	-0.03		0.01	0.00	9.2	RWE	7.1		90.30	0.00	0.00		0.00	0.00	
6/29/2004	104.47			67.0		77.29	13.50	2.00	mm	18.0		85.79	4.65	-0.06	-0.01	0.01	0.33	9.2		8.0		90.00	0.30	0.00		0.01	0.00	
				74.0		76.69	14.10	2.16	swfr	25.0		83.54	6.90	-0.09	-0.02	-0.09	-4.14	8.2		11.0		88.50	1.80	0.00		0.01	0.00	
				81.0		85.29	5.50	2.46		32.0		81.84	8.60	-0.05	0.05	0.00	0.00	8.2		18.0		86.05	4.25	-0.02	0.00	-0.02	-0.59	
				88.0		86.39	4.40	2.40		39.0		80.74	9.70	0.05	0.02	0.06	4.12	8.7		25.0		84.00	6.30	0.03	0.09	0.10	4.60	
			swfr	95.0		84.29	6.50	1.83		46.0		79.74	10.70	0.28	0.03	0.18	13.61	8.7		32.0		82.20	8.10	0.02	0.15	0.11	6.48	
			mm	102.0		85.34	5.45	1.75		53.0		78.64	11.80	0.37	0.15	0.29	24.08	8.7		39.0		81.00	9.30	0.03	0.09	0.10	6.80	
				109.0		87.19	3.60	1.11		60.0		77.64	12.80	0.85	0.57	0.73	65.24	8.7		46.0		79.90	10.40	0.13	0.12	0.17	12.59	
				111.0		89.96	0.83	0.51		67.0		77.54	12.90	1.22	0.83	1.04	94.20	8.7		53.0		78.90	11.40	0.62	1.60	1.15	91.40	
				118.0		88.69	2.10	0.43		74.0		76.24	14.20	1.47	0.36	0.94	93.51	8.7		60.0		78.10	12.20	0.62	0.28	0.48	40.69	
				125.0		88.29	2.50	0.71		81.0		83.84	6.60	1.57	1.05	1.33	61.48	8.7		67.0		78.00	12.30	1.08	0.84	0.99	85.42	
				132.0		88.56	2.23	-0.06	swfr	88.0		84.34	6.10	1.39	0.90	1.16	49.72	8.7		74.0		77.80	12.50	1.16	0.67	0.95	82.73	
				136.5		89.29	1.50	0.39	mm	95.0		84.44	6.00	0.86	0.49	0.69	29.15	8.7		81.0		84.30	6.00	1.23	0.51	0.90	37.88	
				137.0		89.99	0.80	0.50		102.0		85.34	5.10	0.85	0.41	0.75	26.81	8.7		88.0		85.50	4.80	1.30	0.81	1.09	36.61	
			mm	140.0		90.04	0.75	0.50		109.0		86.84	3.60	0.54	-0.02	0.31	4.98	8.7		95.0		84.50	5.80	0.90	0.33	0.65	26.20	
			LWE	141.4		90.19	0.60	0.15		111.0		89.84	0.60	0.22		0.30	0.81	8.2		102.0		85.50	4.80	0.65	0.30	0.50	16.86	
			LWP	144.8						118.0		88.54	1.90	0.13		0.20	2.59	8.2		109.0		86.60	3.70	0.28	0.11	0.24	3.93	
										125.0		88.29	2.15	0.15		0.22	3.30	7.6		111.0		90.00	0.30	0.05		0.10	0.13	
										132.0		88.64	1.80	-0.04		-0.06	-0.65	8.9		118.0		88.50	1.80	0.15		0.19	2.38	
										136.5		89.19	1.25	0.13		0.20	0.61	8.2		125.0		88.30	2.00	0.12		0.17	2.37	
										137.0		90.04	0.40	0.13		0.20	0.14	8.2		132.0		88.65	1.65	0.05		0.10	0.93	
									mm	140.0		90.04	0.40	0.12		0.18	0.16	8.2		136.5		89.25	1.05	0.10		0.15	0.40	
									LWE	141.4		90.24	0.20	-0.02		-0.03	0.00	2.8		137.0		90.00	0.30	0.07		0.14	0.07	
										142.4	9.31	91.48						1.3		140.0		90.00	0.30	0.11		0.16	0.11	
										143.8	8.68	92.11						1.3	LWE	141.4		90.25	0.05	0.00		0.00	0.00	
									LWP	144.8	8.34	92.45						1.3										
										152.8	4.13	96.66						1.3										
										164.8	2.09	98.70						1.3										
										174.8	0.86	99.93						1.3										

mm=March McBirney,



Left bank undercut = 0.3'

Left bank HI=100.79

```
     Williomson River WM_2 05/11/04
Pool                         HIGH                                      TRANSECT 1
IOC       11000001000010001010000
QARD 160.0
QARD 200.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 379.7
QARD 460.9
QARD 500.0
QARD 550.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 750.0
QARD 800.0
QARD 900.0
QARD 998.5
QARD 1100.
QARD 1200.
QARD 1300.
QARD 1400.
QARD 1500.
QARD 1600.
QARD 1700.
QARD 1800.
QARD 1900.
QARD 2000.
QARD 2100.
QARD 2200.
QARD 2300.
QARD 2500.
XSEC   0.0      0.00 1.0     71.68   0.00008
       0.0-23.0 96.2 -4.0 95.3  0.5 93.9  1.0 92.7  5.0 91.7  7.5 90.9
       0.0 10.0 90.6 12.0 90.5 14.0 90.9 15.5 90.8 19.0 89.8 21.0 89.2
       0.0 28.0 85.6 35.0 83.2 42.0 80.8 49.0 79.5 56.0 77.6 63.0 77.0
       0.0 70.0 75.7 77.0 73.9 84.0 72.5 91.0 71.7 98.0 71.7105.0 71.8
       0.0112.0 72.3119.0 73.2126.0 75.1133.0 77.8140.0 81.4147.0 84.0
       0.0154.0 86.0161.0 86.9168.0 87.5173.0 89.8177.0 90.4180.0 90.8
       0.0181.3 93.6182.5 94.6185.0 95.4197.0 95.4
NS     0.0       1.3       1.3       1.3       1.2       2.1       2.1
NS     0.0       2.1       2.1       2.1       2.1 0.5   2.9  0.5  9.2
NS     0.0 0.3   2.3 0.15  2.3       2.3       8.2       8.2       8.3
NS     0.0 0.3   8.2       8.2       8.2       8.2 .065  8.2       8.2
NS     0.0       8.2       8.2       8.2       2.8       2.3       2.3
NS     0.0       2.9       9.2 0.15  2.9       2.9 0.3   9.2       9.3
NS     0.0       1.3       1.3       1.3       1.3
WSL    0.0     89.87     89.95     90.03     90.11     90.20     90.25
WSL    0.0     90.45     90.50     90.55     90.57     90.60     90.62
WSL    0.0     90.65     90.67     90.73     90.77     90.83     90.87
WSL    0.0     90.91     90.95     90.99     91.02     91.05     91.08
WSL    0.0     91.11     91.13     91.16     91.18     91.20     91.25
CAL1   0.0     90.78     998.5
VEL1   0.0                                                 0.00-0.11-0.09
VEL1   0.0 0.01 0.25 0.75 0.53 0.57 0.44 0.18 0.49 0.43 0.74 1.67 0.82
VEL1   0.0 0.49 0.43 0.46 0.51 0.58 0.55 0.69 0.31 0.10 0.08 0.01 0.00
VEL1   0.0
CAL2   0.0     90.42     460.9
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     90.23     379.7
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```

```
     Williomson River WM_2 05/11/04
Pool                        HIGH                                    TRANSECT 2
IOC       1100000100001000101000
QARD 160.0
QARD 200.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 379.7
QARD 460.9
QARD 500.0
QARD 550.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 750.0
QARD 800.0
QARD 900.0
QARD 998.5
QARD 1100.
QARD 1200.
QARD 1300.
QARD 1400.
QARD 1500.
QARD 1600.
QARD 1700.
QARD 1800.
QARD 1900.
QARD 2000.
QARD 2100.
QARD 2200.
QARD 2300.
QARD 2500.
XSEC   0.0      0.00 1.0     71.68   0.00008
       0.0-23.0 95.6 -7.0 95.4 -3.0 94.3  1.0 93.2  5.0 92.2  8.0 91.5
       0.0  9.5 90.8 10.5 89.7 16.0 88.9 23.0 87.4 30.0 84.7 37.0 87.7
       0.0 44.0 85.9 51.0 86.4 58.0 82.0 65.0 74.7 72.0 71.8 79.0 70.6
       0.0 86.0 68.7 93.0 67.6100.0 67.6107.0 68.3114.0 70.3121.0 72.8
       0.0128.0 74.6135.0 77.4142.0 80.4149.0 85.2156.0 89.2157.0 90.2
       0.0162.1 90.8167.3 91.5169.8 91.4171.7 92.6173.8 91.9176.8 92.1
       0.0180.0 92.5181.5 93.7182.3 94.4183.3 94.3195.3 95.8210.3 96.0
NS     0.0       1.3       1.3       1.3       1.3       1.3       1.3
NS     0.0       1.2       9.2       9.2       2.9       8.2       7.8
NS     0.0       8.2       8.2       8.2 0.25  8.2       8.3       8.3
NS     0.0 .083  8.3       8.3       8.3       8.3       8.3       8.3
NS     0.0       8.3       3.2       3.2       3.2       2.3       2.9
NS     0.0       1.3       1.3       1.3       1.3       1.3       1.3
NS     0.0       1.3       1.3       1.3       1.3       1.2       1.2
WSL    0.0     89.88     89.95     90.04     90.11     90.20     90.25
WSL    0.0     90.46     90.50     90.55     90.58     90.60     90.63
WSL    0.0     90.65     90.68     90.73     90.77     90.83     90.88
WSL    0.0     90.92     90.95     90.99     91.02     91.05     91.08
WSL    0.0     91.11     91.14     91.16     91.19     91.21     91.25
CAL1   0.0     90.78     998.5
VEL1   0.0                                0.00 0.05-0.20-0.11 0.68 0.70
VEL1   0.0 0.95 0.82 0.53 0.22 0.54 1.04 1.38 0.90 0.81 0.63 0.31 0.49
VEL1   0.0 0.36 0.30 0.19 0.20-0.11-0.03 0.00
VEL1   0.0
CAL2   0.0     90.43     460.9
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     90.30     379.7
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```

```
     Williomson River WM_2 05/11/04
Pool                        HIGH                                      TRANSECT 3
IOC       1100000100001000101000
QARD 160.0
QARD 200.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 379.7
QARD 460.9
QARD 500.0
QARD 550.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 750.0
QARD 800.0
QARD 900.0
QARD 998.5
QARD 1100.
QARD 1200.
QARD 1300.
QARD 1400.
QARD 1500.
QARD 1600.
QARD 1700.
QARD 1800.
QARD 1900.
QARD 2000.
QARD 2100.
QARD 2200.
QARD 2300.
QARD 2500.
XSEC   0.0      0.00 1.0     76.69   0.00008
       0.0-19.0 96.7 -3.0 96.4  0.0 95.4  1.0 94.1  2.3 92.9  3.5 92.2
       0.0  4.7 92.4  6.0 91.9  6.4 90.4  6.9 90.4  8.0 90.3 11.0 88.9
       0.0 18.0 85.7 25.0 84.4 32.0 82.6 39.0 81.4 46.0 80.4 53.0 79.3
       0.0 60.0 78.5 67.0 77.3 74.0 76.7 81.0 85.3 88.0 86.4 95.0 84.3
       0.0102.0 85.3109.0 87.2111.0 90.0118.0 88.7125.0 88.3132.0 88.6
       0.0136.5 89.3137.0 90.0140.0 90.0141.4 90.2142.4 91.5143.8 92.1
       0.0144.8 92.4152.8 96.7164.8 98.7174.8 99.9
NS     0.0       1.3       1.3       3.1       3.1       3.1       1.3
NS     0.0       1.3       1.3       2.9       2.9       9.2       9.2
NS     0.0       9.2       8.2       8.2       8.7       8.7       8.7
NS     0.0       8.7       8.7       8.7       8.7       8.7       8.7
NS     0.0       8.7       8.7       8.2       8.2       7.6       8.9
NS     0.0       8.2       8.2       8.2       2.8       1.3       1.3
NS     0.0       1.3       1.3       1.3       1.3
WSL    0.0     89.91     89.98     90.07     90.14     90.23     90.28
WSL    0.0     90.48     90.53     90.58     90.60     90.62     90.65
WSL    0.0     90.67     90.70     90.75     90.79     90.85     90.89
WSL    0.0     90.93     90.96     90.99     91.02     91.05     91.08
WSL    0.0     91.11     91.14     91.16     91.19     91.21     91.25
CAL1   0.0     90.79     998.5
VEL1   0.0                                                  0.00-0.27-0.14
VEL1   0.0-0.21 0.02 0.37 0.33 0.70 1.08 1.26 1.93 1.01 2.21 2.31 1.38
VEL1   0.0 1.36 1.11 0.61 0.53 0.76-0.09 0.49 0.60 0.60 0.22
VEL1   0.0
CAL2   0.0     90.44     460.9
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     90.31     379.7
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```

Stream: Williamson River
Site: 626
Date: 5/11/2004
Habitat: Run **Flow:** High

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	4.50	104.50		100.00
HP1			5.26	99.24
HP2			4.84	99.66
HP3			4.62	99.88
TP				
HP3	4.39	104.27		
HP2			4.60	99.67
HP1			5.01	99.26
BM			4.26	100.01

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	104.27	8.48	0.00	95.79	95.79	983.5
1-R	0			8.49	0.00	95.78		
2-L	163	163	104.27	8.42	0.00	95.85	95.86	978.1
2-R				8.40	0.00	95.87		
3-L	276	276	104.27	8.34	0.00	95.93	95.92	1029.4
3-R				8.36	0.00	95.91		
							Ave Q=	997.0

Note: TR2 LWSE surveyed ~20 ft d/s of TR, HI Assumed.
WSE slope = 0.049%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 0068
Propeller ID: NA

Date: 6/29/2004
Habitat: Run **Flow:** Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	4.50	104.50		100.00
HP1			5.26	99.24
HP2			4.85	99.65
HP3			4.63	99.87
TP				
HP3	4.74	104.61		
HP2			5.96	98.65
HP1			5.37	99.24
BM			4.61	100.00

Comment: Addit pts surveyed d/s and u/s

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	104.61	9.43	0.00	95.18	95.16	444.9
1-R	0			9.47	0.00	95.14		
2-L	163	163	104.61	9.42	0.00	95.19	95.21	477.0
2-R				9.89	0.50	95.22		
3-L	276	276	104.61	9.37	0.00	95.24	95.23	472.2
3-R				9.39	0.00	95.22		
							Ave Q=	464.7

Note: Three WSE's measured for TR1, TR2
WSE slope = 0.025%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 0068
Propeller ID: na

Date: 8/19/2004
Habitat: Run **Flow:** Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	4.68	104.68		100.00
HP1			5.43	99.25
HP2			5.03	99.65
HP3			4.81	99.87
TP				
HP3	4.71	104.58		
HP2			4.93	99.65
HP1			5.33	99.25
BM			4.58	100.00

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	103.94	8.94	0.00	95.00	94.99	361
1-R	0			8.96	0.00	94.98		
2-L	163	163	104.58	9.56	0.00	95.02	95.04	316.8
2-R				9.53	0.00	95.05		
3-L	276	276	104.56	9.50	0.00	95.06	95.06	378.9
3-R				9.51	0.00	95.05		
							Ave Q=	352.2

Note: 150' u/s of TR3 FS=9.40 (HI=104.56)
WSE slope = 0.024%

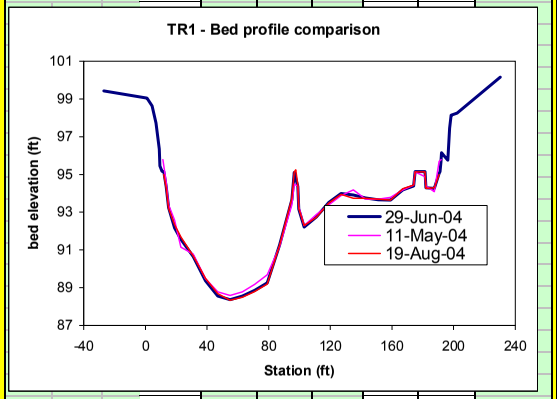
(3) Meter and propeller ID for Velocity Correction

Meter ID: 3602
Propeller ID: 3b

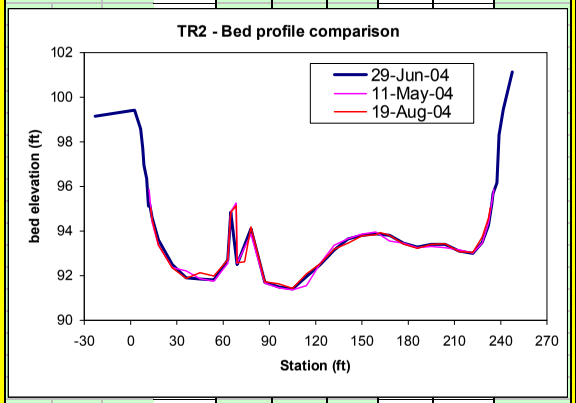
1

Ex. 277-US-425
Page 8 of 21

Stream:	Williamson Rive		11-May-04									29-Jun-04									19-Aug-04										
Site:	626			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			Angle	q	
Transect:	1			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(deg)	(cfs)	substrate
Habitat:	Run		RWP	1.0										-27.0	5.18	99.43						1.3											
			RWE	11.3		95.79	0.00	0.00		0.00	0.00		RWP	1.0	5.56	99.05						1.3											
Survey	HI	Q		13.5		94.59	1.20	0.00		0.01	0.00			4.4	5.97	98.64						1.3											
Date	(ft)	(cfs)		15.0		93.39	2.40	0.07		0.11	0.72			6.9	6.88	97.73						1.3											
5/11/2004	104.27	983.5		19.0		92.59	3.20	0.30	0.06	0.24	3.06			9.1	8.27	96.34						1.3											
6/29/2004	104.61	444.9		23.0		91.16	4.63	0.60	1.06	0.97	27.05			9.5	9.16	95.45						3.1											
8/19/2004	103.94	360.7		31.0		90.79	5.00	0.33	2.46	1.62	64.95			10.7	9.44	95.17						3.1											
				39.0		89.49	6.30	1.20	2.14	1.93	97.13		RWE	12.0		95.16	0.00	0.00		0.00	0.00	1.2	RWE	12.0		94.99	0.00	0.00		0.00		0.00	
				47.0		88.79	7.00	0.07	1.06	0.67	37.57			13.5		94.36	0.80	-0.08		-0.12	-0.15	8.2		13.5		94.29	0.70	0.00		0.01		0.00	
				55.0		88.59	7.20	2.18	3.05	3.01	173.22			15.0		93.24	1.92	-0.10		-0.16	-0.82	8.2		15.0		93.19	1.80	-0.04		-0.08		-0.39	
				63.0		88.79	7.00	2.07	2.77	2.78	155.87			19.0		92.16	3.00	-0.03	-0.07	-0.08	-0.94	2.9		19.0		92.34	2.65	-0.05	-0.03	-0.08		-0.84	
				71.0		89.19	6.60	2.13	2.38	2.59	136.92			23.0		91.56	3.60	0.14	0.23	0.26	5.60	5.6		23.0		91.69	3.30	0.12	0.26	0.23		4.56	
				79.0		89.69	6.10	1.86	2.23	2.35	114.90			31.0		90.66	4.50	1.25	-0.19	0.59	21.33	7.6		31.0		90.69	4.30	1.15	-0.06	0.53		18.39	
				87.0		91.19	4.60	-0.14	1.40	0.71	26.04			39.0		89.36	5.80	1.38	0.92	1.34	61.96	6.2		39.0		89.49	5.50	1.22	0.81	1.05		46.14	
				95.0		93.39	2.40	0.56		0.67	7.63			47.0		88.56	6.60	0.90	-0.11	0.44	23.21	8.7		47.0		88.69	6.30	0.57	-0.06	0.24		11.94	
				96.5		94.49	1.30	0.68		0.81	2.09			55.0		88.36	6.80	1.25	1.06	1.34	72.99	6.7		55.0		88.34	6.65	1.08	1.23	1.19		63.45	
				99.0		94.39	1.40	0.16		0.23	0.48			63.0		88.56	6.60	1.78	1.29	1.78	93.73	6.7		63.0		88.49	6.50	1.75	1.25	1.55		80.41	
				99.5		93.29	2.50	-0.05	0.72	0.39	1.93			71.0		88.86	6.30	1.33	0.87	1.28	64.47	6.7		71.0		88.79	6.20	1.40	0.97	1.22		60.68	
				103.0		92.29	3.50	0.36	0.77	0.68	13.67			79.0		89.26	5.90	1.24	0.70	1.13	53.50	7.6		79.0		89.19	5.80	1.25	0.50	0.91		42.09	
				111.0		92.89	2.90	0.46	0.59	0.63	14.67			87.0		91.26	3.90	0.50	-0.07	0.25	7.69	8.7		87.0		91.24	3.75	0.48	0.10	0.33		9.83	
				119.0		93.39	2.40	0.44		0.54	10.36			95.0		93.66	1.50	0.32		0.41	2.90	8.7		95.0		93.74	1.25	0.15		0.19		0.95	
				127.0		93.89	1.90	0.39		0.49	7.38			96.5		95.11	0.05	0.00		0.01	0.00	8.9		96.5		95.14	-0.15						
				135.0		94.19	1.60	1.08		1.26	16.07			99.0		94.36	0.80	0.01		0.02	0.02	8.9		97.5		95.24	-0.25						
				143.0		93.69	2.10	1.13		1.31	22.06			99.5		93.16	2.00	-0.03		-0.05	-0.19	8.9		99.0		94.44	0.55	-0.06		-0.12		-0.02	
				151.0		93.69	2.10	1.00		1.16	19.55			103.0		92.21	2.95	0.04	-0.02	0.02	0.26	7.9		99.5		93.19	1.80	0.00		0.01		0.04	
				159.0		93.79	2.00	0.36		0.45	7.24			111.0		92.76	2.40	0.16		0.23	4.42	7.6		103.0		92.29	2.70	0.23	-0.03	0.10		1.61	
				167.0		94.19	1.60	0.45		0.55	6.60			119.0		93.51	1.65	0.18		0.25	3.35	7.6		111.0		92.74	2.25	0.11		0.16		2.89	
				174.0		94.44	1.35	1.11		1.29	6.97			127.0		93.99	1.17	0.01		0.02	0.15	6.7		119.0		93.49	1.50	0.10		0.15		1.81	
				175.0		95.14	0.65	0.91		1.06	2.58			135.0		93.91	1.25	0.70		0.83	8.28	6.7		127.0		93.94	1.05	0.10		0.15		1.27	
				181.5		94.89	0.90	0.64		0.76	2.40			143.0		93.76	1.40	0.64		0.76	8.52	6.7		135.0		93.74	1.25	0.52		0.54		5.44	
				182.0		94.39	1.40	0.43		0.53	2.22			151.0		93.66	1.50	0.52		0.62	7.48	7.6	*45	143.0		93.74	1.25	0.54		0.56	45	3.98	
				187.5		94.09	1.70	0.22		0.30	2.17			159.0		93.64	1.52	0.37		0.46	5.64	7.6		151.0		93.69	1.30	0.31		0.34		3.55	
				190.5		95.69	0.10	0.09		0.14	0.03			167.0		94.18	0.98	0.04		0.06	0.46	7.6	*45	159.0		93.64	1.35	0.23		0.27	45	2.03	
			LWE	192.0		95.79	0.00	0.00		0.00	0.00			174.0		94.39	0.77	0.25		0.33	1.03	7.6	*45	167.0		94.24	0.75	0.21		0.25	45	0.99	
			LWP	202.3										175.0		95.16	0.00	0.00		0.00	0.00	8.7		174.0		94.44	0.55	0.07		0.14		0.27	
														181.5		95.16	0.00	0.00		0.00	0.00	8.7		175.0		95.14	-0.15						
														182.0		94.29	0.87	0.03		0.05	0.12	7.8		181.5		95.14	-0.15						
														187.5		94.26	0.90	-0.02		-0.03	-0.12	7.6		182.0		94.27	0.72	-0.11		-0.16		-0.32	
														190.5		95.06	0.10	0.00		0.01	0.00	2.7		187.5		94.29	0.70	0.00		0.01		0.00	
													LWE	191.2		95.16	0.00	0.00		0.00	0.00	1.2	LWE	190.5		94.99	0.00	0.00		0.00		0.00	
														191.7	8.97	95.64						1.2											
														192.1	8.45	96.16						1.2											
														193.8	8.63	95.98						1.2											
														196.3	8.86	95.75						1.2											
														197.3	7.16	97.45						1.2											
														198.3	6.47	98.14						1.3											
													LWP	202.3	6.36	98.25						1.3											
														230.3	4.46	100.15						1.3											



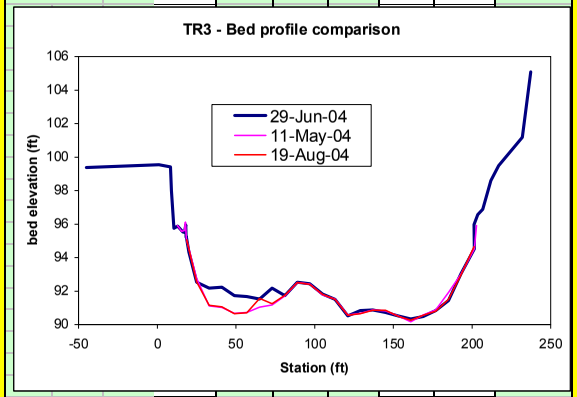
Stream:	Williamson Riv		11-May-04										29-Jun-04										19-Aug-04									
Site:	626			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q	
Transect:	2			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate
Habitat:	Run		RWP	1.0										-23.0	5.46	99.15						1.3										
			RWE	12.0		95.86	0.00	0.00		0.00	0.00		RWP	1.0	5.20	99.41						1.3										
Survey	HI	Q		14.0		94.41	1.45	0.63		0.75	3.26			2.6	5.19	99.42						1.3										
Date	(ft)	(cfs)		18.0		93.36	2.50	0.81		0.95	15.44			6.6	6.03	98.58						1.3										
5/11/2004	104.27	978.1		27.0		92.36	3.50	1.04	1.13	1.26	39.73			8.0	6.89	97.72						1.3										
6/29/2004	104.61	477.0		36.0		92.21	3.65	1.13	1.45	1.50	49.15			8.6	7.66	96.95						1.3										
8/19/2004	104.58	316.8		45.0		91.86	4.00	1.45	1.54	1.73	62.30			10.4	8.26	96.35						1.2		13.0		95.04	0.00	0.00		0.00	0.00	
				54.0		91.76	4.10	1.18	1.09	1.32	48.66			11.7	9.49	95.12						8.2		14.0		94.54	0.50	0.23		0.27	0.33	
				63.0		92.56	3.30	0.03	0.87	0.53	9.64		RWE	12.5		95.21	0.00	0.00		0.00	0.00	8.2		18.0		93.39	1.65	0.44		0.46	4.98	
				65.0		94.86	1.00	0.42		0.52	1.43			14.0		94.61	0.60	0.54		0.65	1.07	8.2		27.0		92.36	2.68	0.75	0.64	0.72	17.34	
				68.5		95.26	0.60	1.93		2.22	2.67			18.0		93.61	1.60	0.30		0.38	3.99	2.9		36.0		91.89	3.15	1.07	0.75	0.94	26.66	
				69.0		92.56	3.30	0.15	2.25	1.40	22.00			27.0		92.51	2.70	0.90	0.71	0.94	22.93	5.4		45.0		92.14	2.90	0.92	0.82	0.90	23.48	
				78.0		93.86	2.00	1.51		1.75	31.46			36.0		91.91	3.30	1.16	0.55	1.00	29.78	6.7		54.0		91.99	3.05	0.79	0.86	0.85	23.42	
				87.0		91.66	4.20	1.49	2.24	2.15	81.28			45.0		91.86	3.35	1.13	1.04	1.26	38.03	6.5		63.0		92.72	2.32	0.00		0.01	0.00	
				96.0		91.46	4.40	1.79	2.33	2.37	93.95			54.0		91.81	3.40	0.95	0.96	1.11	34.02	5.6		65.0		94.84	0.20	0.00		0.01	0.00	
				105.0		91.36	4.50	1.53	2.17	2.13	86.38			63.0		92.71	2.50	0.22	-0.10	0.07	0.99	8.4		68.5		95.14	-0.10					
				114.0		91.56	4.30	1.00	1.78	1.61	62.26			65.0		94.86	0.35	0.12		0.18	0.19	8.3		69.0		92.59	2.45	-0.09		-0.15	-0.92	
				123.0		92.56	3.30	1.13	1.45	1.50	44.44			69.0		92.51	2.70	0.93	0.45	0.82	14.33	8.3		74.0		92.62	2.42	0.71		0.73	8.00	
				132.0		93.36	2.50	1.68		1.94	43.67			78.0		94.11	1.10	0.71		0.84	8.31	8.7		78.0		94.19	0.85	0.93		0.96	5.31	
				141.0		93.66	2.20	1.24		1.44	28.50			87.0		91.71	3.50	1.87	1.52	1.96	61.66	5.4		87.0		91.74	3.30	1.69	1.08	1.43	42.42	
				150.0		93.86	2.00	1.49		1.72	31.05			96.0		91.51	3.70	1.83	1.55	1.95	65.00	5.4		96.0		91.64	3.40	1.45	1.24	1.39	42.46	
				159.0		93.96	1.90	1.49		1.72	29.49			105.0		91.41	3.80	1.58	1.29	1.66	56.83	6.5		105.0		91.44	3.60	1.31	0.92	1.15	37.31	
				168.0		93.56	2.30	1.05		1.22	25.28			114.0		91.96	3.25	1.39	0.61	1.17	34.18	7.6		114.0		92.09	2.95	0.97	0.80	0.91	24.29	
				177.0		93.46	2.40	1.02		1.19	25.63			123.0		92.51	2.70	0.85	0.45	0.77	18.77	6.7		123.0		92.54	2.50	0.68	0.32	0.53	11.86	
				186.0		93.26	2.60	0.54	1.19	1.01	23.73			132.0		93.16	2.05	0.79		0.93	17.11	7.6		132.0		93.19	1.85	0.64		0.66	11.03	
				195.0		93.31	2.55	1.10	1.58	1.55	35.64			141.0		93.66	1.55	0.61		0.73	10.13	7.6		141.0		93.47	1.57	0.24		0.27	3.88	
				204.0		93.26	2.60	1.00	1.49	1.44	33.79			150.0		93.81	1.40	0.93		1.08	13.65	7.6		150.0		93.79	1.25	0.45		0.47	5.34	
				213.0		93.16	2.70	0.34	1.52	1.09	26.60			159.0		93.89	1.32	0.14		0.21	2.46	7.6		159.0		93.84	1.20	-0.03		-0.06	-0.43	
				222.0		93.01	2.85	1.49	0.05	0.90	19.27			168.0		93.81	1.40	0.53		0.64	8.00	7.6		162.0		93.94	1.10	0.41		0.43	2.15	
				228.0		93.46	2.40	0.11		0.17	2.03			177.0		93.46	1.75	0.15		0.22	3.45	7.6		168.0		93.82	1.22	0.16		0.20	1.83	
				232.0		94.36	1.50	-0.07		-0.11	-0.62			186.0		93.29	1.92	0.34		0.43	7.43	7.6		177.0		93.42	1.62	0.36	0.09	0.27	3.93	
			LWE	235.6		95.86	0.00	0.00		0.00	0.00			195.0		93.41	1.80	0.15		0.22	3.55	6.7		186.0		93.24	1.80	0.37		0.40	6.45	
			LWP	241.6										204.0		93.41	1.80	0.43		0.53	8.57	6.7		195.0		93.41	1.63	0.05		0.10	1.44	
														213.0		93.11	2.10	0.29		0.37	7.07	6.7		204.0		93.44	1.60	0.41		0.43	6.26	
														222.0		93.01	2.20	0.28		0.36	6.01	6.2		213.0		93.09	1.95	0.30		0.33	5.81	
														228.0		93.49	1.72	-0.04		-0.06	-0.54	2.7		222.0		93.04	2.00	0.14		0.18	2.75	
														232.0		94.26	0.95	0.00		0.01	0.00	2.1		228.0		93.74	1.30	-0.04		-0.08	-0.51	
													LWE	234.2		95.21	0.00	0.00		0.00	0.00	1.2		232.0		94.59	0.45	-0.04		-0.08	-0.09	
														235.0	8.94	95.67						1.2	LWE	233.3		95.04	0.00	0.00		0.00	0.00	
														237.5	8.45	96.16						1.2										
														239.0	6.30	98.31						1.3										
													LWP	241.6	5.17	99.44						1.3										
														247.6	3.47	101.14						1.3										



Stream:	Williamson Rive	
Site:	626	
Transect:	3	
Habitat:	Run	

Survey Date	HI (ft)	Q (cfs)
5/11/2004	104.27	1029.4
6/29/2004	104.61	472.2
8/19/2004	104.56	378.9

	11-May-04								
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate
RWP	1.0								
RWE	12.8		95.92	0.00	0.00		0.00	0.00	
	15.5		95.57	0.35	0.29		0.37	0.29	
	17.3		95.62	0.30	0.05		0.08	0.02	
	18.0		96.12	-0.20					
	18.5		95.12	0.80	0.27		0.35	0.92	
	25.0		92.75	3.17	0.56	0.54	0.66	15.12	
	33.0		91.12	4.80	0.54	0.49	0.62	23.77	
	41.0		91.02	4.90	0.58	0.50	0.65	25.37	
	49.0		90.67	5.25	0.67	0.24	0.56	23.45	
	57.0		90.72	5.20	0.74	0.46	0.72	29.81	
	65.0		91.05	4.87	0.70	0.27	0.59	23.03	
	73.0		91.17	4.75	0.69	0.49	0.70	26.76	
	81.0		91.72	4.20	0.94	0.61	0.91	30.59	
	89.0		92.52	3.40	1.15	0.79	1.13	30.79	
	97.0		92.42	3.50	1.30	1.08	1.38	38.69	
	105.0		91.77	4.15	1.30	0.99	1.33	44.16	
	113.0		91.52	4.40	1.30	1.23	1.47	51.67	
	121.0		90.57	5.35	1.59	0.83	1.41	60.15	
	129.0		90.67	5.25	1.44	1.35	1.62	67.89	
	137.0		90.87	5.05	1.55	1.53	1.78	71.98	
	145.0		90.82	5.10	1.78	1.50	1.90	77.32	
	153.0		90.52	5.40	2.12	1.75	2.23	96.29	
	161.0		90.17	5.75	2.34	1.29	2.09	96.31	
	169.0		90.57	5.35	2.52	1.94	2.57	109.84	
	177.0		90.87	5.05	1.88	1.16	1.76	71.00	
	185.0		91.92	4.00	0.52	0.30	0.50	16.12	
	193.0		93.02	2.90	-0.08	-0.02	-0.08	-1.85	
	201.4		94.52	1.40	-0.01		-0.02	-0.11	
LWE	202.9		95.92	0.00	0.00		0.00	0.00	
LWP	216.9								



	29-Jun-04								
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate
	-45.0	5.24	99.37						1.3
RWP	1.0	5.06	99.55						1.3
	8.4	5.19	99.42						1.3
	9.0	6.61	98.00						3.1
	10.5	8.87	95.74						8.3
	13.0	8.73	95.88						8.8
	16.3	9.09	95.52						8.1
	17.4	9.10	95.51						1.8
	18.2	8.65	95.96						1.3
	18.4	9.38	95.23						8.3
RWE	18.5		95.23	0.00	0.00		0.00	0.00	8.2
	20.0		94.33	0.90	0.31		0.40	1.16	9.9
	25.0		92.53	2.70	0.32	0.32	0.41	7.15	8.2
	33.0		92.18	3.05	0.24	0.18	0.29	7.03	8.2
	41.0		92.23	3.00	0.20	0.22	0.29	6.94	8.2
	49.0		91.73	3.50	0.33	0.00	0.21	5.86	2.1
	57.0		91.68	3.55	0.29	0.02	0.20	5.76	8.9
	65.0		91.53	3.70	0.21	-0.15	0.04	1.04	8.9
	73.0		92.18	3.05	0.42	0.47	0.54	13.29	8.2
	81.0		91.73	3.50	0.59	0.55	0.68	19.06	3.2
	89.0		92.53	2.70	0.57	0.59	0.69	14.95	4.5
	97.0		92.43	2.80	0.55	0.68	0.73	16.39	5.4
	105.0		91.83	3.40	0.74	0.75	0.88	23.88	5.4
	113.0		91.50	3.73	0.77	0.62	0.82	24.52	5.4
	121.0		90.53	4.70	0.61	0.47	0.65	24.39	7.6
	129.0		90.83	4.40	0.80	0.75	0.91	32.07	7.6
	137.0		90.88	4.35	1.03	0.80	1.07	37.18	6.7
	145.0		90.73	4.50	1.26	0.93	1.27	45.81	6.7
	153.0		90.53	4.70	1.44	1.08	1.46	54.96	6.7
	161.0		90.33	4.90	1.79	1.30	1.79	70.04	7.6
	169.0		90.48	4.75	1.38	0.83	1.29	48.86	6.7
	177.0		90.83	4.40	0.50	0.23	0.46	16.08	6.7
	185.0		91.43	3.80	-0.06	-0.06	-0.09	-2.85	6.7
	193.0		93.03	2.20	-0.05		-0.08	-1.41	9.2
LWE	201.4		94.53	0.70	0.00		0.01	0.03	2.9
	201.2	8.64	95.97						1.3
	203.7	8.05	96.56						1.3
	206.9	7.73	96.88						1.3
	211.9	6.01	98.60						1.3
LWP	216.9	5.12	99.49						1.3
	231.9	3.42	101.19						5.1
	237.4	-0.48	105.09						5.1

	19-Aug-04								
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) $V_{0.2/0.6}$	Vel (ft/s) $V_{0.8}$	Vel (ft/s) Ave	q (cfs)	substrate
RWE	18.8		95.06	0.00	0.00		0.00	0.00	
	25.0		92.56	2.50	0.28		0.31	5.53	
	33.0		91.16	3.90	0.26	0.16	0.25	7.66	
	41.0		91.06	4.00	0.21	0.17	0.23	7.33	
	49.0		90.66	4.40	0.16	-0.02	0.08	2.82	
	57.0		90.71	4.35	0.16	-0.02	0.08	2.79	
	65.0		91.56	3.50	0.32	-0.01	0.17	4.63	
	73.0		91.26	3.80	0.49	0.42	0.48	14.58	
	81.0		91.76	3.30	0.59	0.47	0.55	14.60	
	89.0		92.51	2.55	0.68	0.52	0.62	12.72	
	97.0		92.41	2.65	0.64	0.66	0.67	14.26	
	105.0		91.81	3.25	0.83	0.60	0.74	19.23	
	113.0		91.51	3.55	0.84	0.82	0.86	24.37	
	121.0		90.56	4.50	0.89	0.56	0.75	27.05	
	129.0		90.66	4.40	0.92	0.47	0.72	25.44	
	137.0		90.86	4.20	1.17	0.84	1.04	34.89	
	145.0		90.86	4.20	1.29	1.09	1.23	41.28	
	153.0		90.51	4.55	1.35	1.03	1.23	44.72	
	161.0		90.26	4.80	1.58	1.06	1.36	52.29	
	169.0		90.56	4.50	0.72	0.63	0.70	25.14	
	177.0		90.81	4.25	0.23	0.04	0.17	5.87	
	185.0		91.51	3.55	-0.13	-0.13	-0.18	-5.02	
	193.0		92.96	2.10	-0.15		-0.19	-3.23	
LWE	201.3		94.66	0.40	0.00		0.00	0.00	

Left undercut bank = 0.5'

```
     Williomson River WM_2 05/11/04
RIFFLE                     HIGH                                    TRANSECT 1
IOC       1101100000001000101000
QARD 160.0
QARD 200.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 379.7
QARD 460.9
QARD 500.0
QARD 550.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 750.0
QARD 800.0
QARD 900.0
QARD 998.5
QARD 1100.
QARD 1200.
QARD 1300.
QARD 1400.
QARD 1500.
QARD 1600.
QARD 1700.
QARD 1800.
QARD 1900.
QARD 2000.
QARD 2100.
QARD 2200.
QARD 2300.
QARD 2500.
XSEC   0.0      0.00 1.0     88.59   0.00049
       0.0-27.0 99.4  1.0 99.1  4.4 98.6  6.9 97.7  9.1 96.3  9.5 95.4
       0.0 10.7 95.2 11.3 95.8 13.5 94.6 15.0 93.4 19.0 92.6 23.0 91.2
       0.0 31.0 90.8 39.0 89.5 47.0 88.8 55.0 88.6 63.0 88.8 71.0 89.2
       0.0 79.0 89.7 87.0 91.2 95.0 93.4 96.5 94.5 99.0 94.4 99.5 93.3
       0.0103.0 92.3111.0 92.9119.0 93.4127.0 93.9135.0 94.2143.0 93.7
       0.0151.0 93.7159.0 93.8167.0 94.2174.0 94.4175.0 95.1181.5 94.9
       0.0182.0 94.4187.5 94.1190.5 95.7192.0 95.8192.1 96.2193.8 96.0
       0.0196.3 95.8197.3 97.5198.3 98.2202.3 98.3230.3100.2
NS     0.0       1.3       1.3       1.3       1.3       1.3       3.1
NS     0.0       3.1       1.2 0.5   8.2       8.2 0.2   2.9       5.6
NS     0.0       7.6       6.2 .12   8.7       6.7       6.7       6.7
NS     0.0       7.6       8.7       8.7       8.9 .09   8.9 .095  8.9
NS     0.0       7.9       7.6       7.6       6.7       6.7       6.7
NS     0.0       7.6       7.6       7.6       7.6       8.7       8.7
NS     0.0       7.8       7.6       2.7       1.2       1.2       1.2
NS     0.0       1.2       1.2       1.3       1.3       1.3
CAL1   0.0     95.79     998.5
VEL1   0.0                                     0.00 0.01 0.11 0.24 0.97
VEL1   0.0 1.62 1.93 0.67 3.01 2.78 2.59 2.35 0.71 0.67 0.81 0.23 0.39
VEL1   0.0 0.68 0.63 0.54 0.49 1.26 1.31 1.16 0.45 0.55 1.29 1.06 0.76
VEL1   0.0 0.53 0.30 0.14 0.00
CAL2   0.0     95.16     460.9
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     94.99     379.7
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```

```
     Williomson River WM_2 05/11/04
RIFFLE                     HIGH                                    TRANSECT 2
IOC       1101100000001000101000
QARD 160.0
QARD 200.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 379.7
QARD 460.9
QARD 500.0
QARD 550.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 750.0
QARD 800.0
QARD 900.0
QARD 998.5
QARD 1100.
QARD 1200.
QARD 1300.
QARD 1400.
QARD 1500.
QARD 1600.
QARD 1700.
QARD 1800.
QARD 1900.
QARD 2000.
QARD 2100.
QARD 2200.
QARD 2300.
QARD 2500.
XSEC   0.0      0.00 1.0     91.36   0.00049
       0.0-23.0 99.2  1.0 99.4  2.6 99.4  6.6 98.6  8.0 97.7  8.6 96.9
       0.0 10.4 96.3 11.7 95.1 12.0 95.9 14.0 94.4 18.0 93.4 27.0 92.4
       0.0 36.0 92.2 45.0 91.9 54.0 91.8 63.0 92.6 65.0 94.9 68.5 95.3
       0.0 69.0 92.6 78.0 93.9 87.0 91.7 96.0 91.5105.0 91.4114.0 91.6
       0.0123.0 92.6132.0 93.4141.0 93.7150.0 93.9159.0 94.0168.0 93.6
       0.0177.0 93.5186.0 93.3195.0 93.3204.0 93.3213.0 93.2222.0 93.0
       0.0228.0 93.5232.0 94.4235.6 95.9237.5 96.2239.0 98.3241.6 99.4
       0.0247.6101.1
NS     0.0       1.3       1.3       1.3       1.3       1.3       1.3
NS     0.0       1.2       8.2       8.2       8.2       2.9       5.4
NS     0.0       6.7       6.5       5.6       8.4       8.3 .022  8.3
NS     0.0       8.3       8.7       5.4       5.4       6.5       7.6
NS     0.0       6.7       7.6       7.6       7.6       7.6       7.6
NS     0.0       7.6       7.6       6.7       6.7       6.7       6.2
NS     0.0       2.7       2.1       1.2       1.2       1.3       1.3
NS     0.0       1.3
CAL1   0.0     95.86     998.5
VEL1   0.0                                          0.00 0.75 0.95 1.26
VEL1   0.0 1.50 1.73 1.32 0.53 0.52 2.22 1.40 1.75 2.15 2.37 2.13 1.61
VEL1   0.0 1.50 1.94 1.44 1.72 1.72 1.22 1.19 1.01 1.55 1.44 1.09 0.90
VEL1   0.0 0.17-0.11 0.00
CAL2   0.0     95.21     460.9
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     95.04     379.7
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```

```
     Williomson River WM_2 05/11/04
RIFFLE                    HIGH                                    TRANSECT 3
IOC       110110000000001000101000
QARD 160.0
QARD 200.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 379.7
QARD 460.9
QARD 500.0
QARD 550.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 750.0
QARD 800.0
QARD 900.0
QARD 998.5
QARD 1100.
QARD 1200.
QARD 1300.
QARD 1400.
QARD 1500.
QARD 1600.
QARD 1700.
QARD 1800.
QARD 1900.
QARD 2000.
QARD 2100.
QARD 2200.
QARD 2300.
QARD 2500.
XSEC   0.0      0.00 1.0     92.00   0.00049
       0.0-45.0 99.4  1.0 99.6  8.4 99.4  9.0 98.0 10.5 95.7 12.8 95.9
       0.0 15.5 95.6 17.3 95.6 18.0 96.1 18.5 95.1 25.0 92.7 33.0 91.1
       0.0 41.0 91.0 49.0 90.7 57.0 90.7 65.0 91.1 73.0 91.2 81.0 91.7
       0.0 89.0 92.5 97.0 92.4105.0 91.8113.0 91.5121.0 90.6129.0 90.7
       0.0137.0 90.9145.0 90.8153.0 90.5161.0 90.2169.0 90.6177.0 90.9
       0.0185.0 91.9193.0 93.0201.4 94.5202.9 95.9203.7 96.6206.9 96.9
       0.0211.9 98.6216.9 99.5231.9101.2237.4105.1
NS     0.0       1.3       1.3       1.3       3.1       8.3       8.8
NS     0.0       8.1 .05   1.8 .05   1.3 .05   8.2       8.2       8.2
NS     0.0       8.2       2.1       8.9       8.9       8.2       3.2
NS     0.0       4.5       5.4       5.4       5.4       7.6       7.6
NS     0.0       6.7       6.7       6.7       7.6       6.7       6.7
NS     0.0       6.7       9.2       2.9       1.3       1.3       1.3
NS     0.0       1.3       1.3       5.1       5.1
CAL1   0.0     95.92     998.5
VEL1   0.0                          0.00 0.37 0.08      0.35 0.66 0.62
VEL1   0.0 0.65 0.56 0.72 0.59 0.70 0.91 1.13 1.38 1.33 1.47 1.41 1.62
VEL1   0.0 1.78 1.90 2.23 2.09 2.57 1.76 0.50-0.08-0.02 0.00
VEL1   0.0
CAL2   0.0     95.23     460.9
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     95.06     379.7
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```

Stream: Williamson River
Site: 626
Date: 5/11/2004
Habitat: Riffle **Flow:** High

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	7.82	107.82		100.00
HP1			5.09	102.73
HP2			6.15	101.67
HP3			4.96	102.86
TP				
HP3	5.23	108.09		
HP2			6.40	101.69
HP1			5.34	102.75
BM			8.08	100.01

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	108.09	14.21	0.00	93.88	93.87	1019.1
1-R	0			14.24	0.00	93.85		
2-L	80	132	108.09	14.07	0.00	94.02	94.01	993.2
2-R	183			14.10	0.00	93.99		
3-L	145	200	108.09	14.01	0.00	94.08	94.11	867.3
3-R	254			13.96	0.00	94.13		
							Ave Q=	959.9

Note: Additional WSE's surveyed
WSE slope = 0.120%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 4099
Propeller ID: 1a

Date: 6/29/2004
Habitat: Riffle **Flow:** Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	9.21	109.21		100.00
HP1			6.47	102.74
HP2			7.52	101.69
HP3			6.36	102.85
TP				
HP3	6.48	109.33		
HP2			7.64	101.69
HP1			6.60	102.73
BM			9.33	100.00

Comment: Addit survey pt d/s of TR1

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	109.33	15.66	0.00	93.67	93.54	
1-R	0			15.93	0.00	93.40		
2-L	80	132	109.33	15.58	0.00	93.75	93.72	440.6
2-R	183			15.64	0.00	93.69		
3-L	145	200	109.33	15.53	0.00	93.80	93.79	
3-R	254			15.55	0.00	93.78		
							Ave Q=	440.6

Note: Additional WSE's surveyed
WSE slope = 0.128%

(3) Meter and propeller ID for Velocity Correction

Meter ID: 3602
Propeller ID: 3a

Date: 8/19/2004
Habitat: Riffle **Flow:** Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	7.95	107.95		100.00
HP1			5.21	102.74
HP2			6.26	101.69
HP3			5.11	102.84
TP				
HP3	5.33	108.17		
HP2			6.50	101.67
HP1			5.45	102.72
BM			8.19	99.98

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	River Station L/R bank (ft)	River Station Ave (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
1-L	0	0	108.20	14.69	0.00	93.51	93.38	446
1-R	0		108.17	14.92	0.00	93.25		
2-L	80	132	108.20	14.53	0.00	93.67	93.63	401.5
2-R	183			14.62	0.00	93.58		
3-L	145	200	108.20	14.53	0.00	93.67	93.67	374.7
3-R	254			14.54	0.00	93.66		
							Ave Q=	407.3

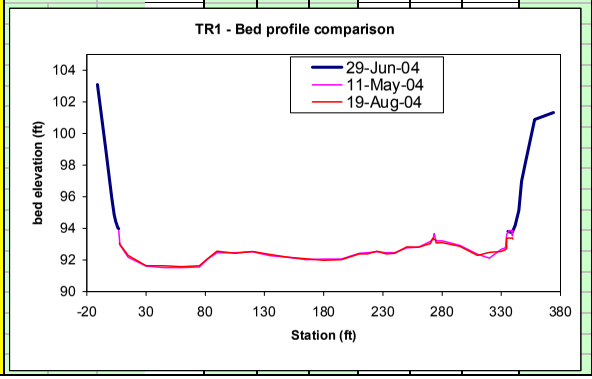
Note:
WSE slope = 0.143%

(3) Meter and propeller ID for Velocity Correction

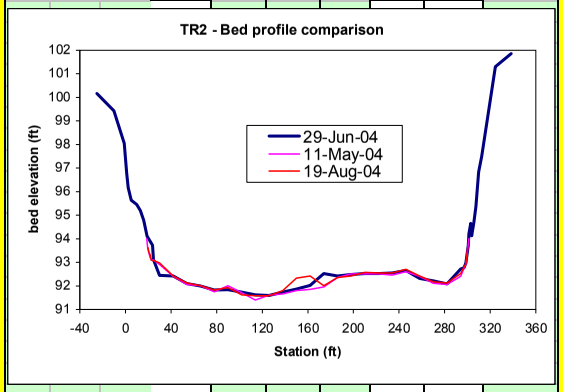
Meter ID: 4099
Propeller ID: 1a

1

Stream:	Williamson Rive		11-May-04										29-Jun-04										19-Aug-04									
Site:	626			Sta	FS	Ground	Depth	Vel (ft/s)			Angle	q			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			Angle	q	
Transect:	1			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(deg)	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(deg)	(cfs)	substrate
Habitat:	Riffle		RWP - 1.0												-11.0	6.23	103.10						1.3										
			RWE	6.9		93.87	0.00	0.00		0.00		0.00			-4.0	10.28	99.05						1.3	RWE	7.5		93.08	0.30	0.00		0.00		0.00	1.9
Survey	HI	Q		8.0		92.97	0.90	0.45		0.52		1.89		RWP	1.0	13.38	95.95						1.3		8.0		92.98	0.40	0.31		0.39		0.59	4.8
Date	(ft)	(cfs)		15.0		92.17	1.70	1.75		1.82		34.07			3.0	14.47	94.86						1.3		15.0		92.29	1.09	0.75		0.80		9.59	4.5
5/11/2004	108.09	1019.1		30.0		91.62	2.25	1.58		1.65		55.59			4.4	14.89	94.44						1.3		30.0		91.63	1.75	1.34		1.40		36.74	5.9
6/29/2004	109.33			45.0		91.52	2.35	1.64		1.71		60.24			6.3	15.29	94.04						1.2		45.0		91.63	1.75	0.52	1.55	1.10		28.78	5.9
8/19/2004	108.20	445.7		60.0		91.52	2.35	1.60		1.67		58.79			7.0	15.34	93.99						1.2		60.0		91.58	1.80	1.57		1.64		44.19	5.9
				75.0		91.57	2.30	1.71		1.78		45.05													75.0		91.63	1.75	0.65		0.70		13.49	5.9
				82.0		92.07	1.80	1.60		1.67		22.51			335.7	15.52	93.81						1.2		82.0		92.08	1.30	1.32		1.38		13.44	9.5
			*60	90.0		92.47	1.40	1.74		1.81	60	14.58			339.2	15.59	93.74						1.2	*40	90.0		92.56	0.82	1.55		1.62	40	11.68	5.9
				105.0		92.47	1.40	2.40		2.49		52.20			341.7	15.14	94.19						1.2	*40	105.0		92.43	0.95	1.51		1.57	40	17.19	5.9
				120.0		92.52	1.35	2.33		2.41		48.90			344.7	14.19	95.14						1.3	*30	120.0		92.53	0.85	0.93		0.97	30	10.76	5.9
				135.0		92.27	1.60	2.22		2.30		55.27			347.2	12.35	96.98						1.3		135.0		92.35	1.03	1.55		1.62		24.97	5.9
				150.0		92.17	1.70	2.61		2.70		68.84		LWP	350.2	11.24	98.09						1.3		150.0		92.18	1.20	2.00		2.08		37.41	5.9
				165.0		92.02	1.85	2.74		2.83		78.59			358.2	8.45	100.88						1.3		165.0		92.08	1.30	1.43		1.49		29.10	5.9
				180.0		92.07	1.80	2.43		2.52		67.94			374.2	8.00	101.33						1.3		180.0		91.98	1.40	1.54		1.61		33.72	5.4
				195.0		92.07	1.80	2.32		2.40		64.92													195.0		92.02	1.36	1.61		1.68		34.23	5.6
				210.0		92.42	1.45	2.11		2.19		34.94													210.0		92.38	1.00	1.24		1.30		14.26	5.6
				217.0		92.47	1.40	1.97		2.05		21.50													217.0		92.38	1.00	1.87		1.95		14.59	5.4
				225.0		92.52	1.35	0.80		0.85		9.16													225.0		92.56	0.82	1.24		1.30		8.50	5.9
				233.0		92.47	1.40	2.10		2.18		22.89													233.0		92.38	1.00	1.26		1.32		9.88	5.4
				240.0		92.47	1.40	2.06		2.14		25.46													240.0		92.43	0.95	1.21		1.27		10.22	5.9
				250.0		92.77	1.10	2.14		2.22		24.43													250.0		92.82	0.56	1.15		1.20		6.74	5.4
				260.0		92.82	1.05	1.15		1.20		12.63													260.0		92.81	0.57	0.44		0.51		2.90	5.9
			*45	270.0		93.17	0.70	2.13		2.21	45	6.84												*85	270.0		93.03	0.35	0.79		0.84	85	0.16	5.4
				272.5		93.37	0.50	2.26		2.34		2.05													272.5		93.38	0.00	0.00		0.00		0.00	1.1
				273.5		93.67	0.20	0.00		0.01		0.00													273.5		93.28	0.10	0.00		0.01		0.00	1.1
				274.5		93.27	0.60	0.00		0.01		0.00													274.5		93.28	0.10	0.00		0.01		0.00	1.1
				275.5		93.22	0.65	1.35		1.41		2.52													274.9		93.08	0.30	0.00		0.01		0.00	5.4
				280.0		93.22	0.65	1.44		1.50		9.52													280.0		93.10	0.28	0.30		0.38		1.08	5.4
				295.0		92.92	0.95	1.71		1.78		25.38													295.0		92.86	0.52	0.71		0.76		5.93	5.4
				310.0		92.37	1.50	1.82		1.89		35.51													310.0		92.28	1.10	0.69		0.74		10.18	5.6
				320.0		92.12	1.75	2.00		2.08		36.37													320.0		92.48	0.90	0.98		1.03		9.24	6.9
				330.0		92.67	1.20	2.24		2.32		18.82													330.0		92.53	0.85	0.96		1.01		5.77	6.9
				333.5		92.77	1.10	0.63		0.68		1.68													333.5		92.65	0.73	0.12		0.21		0.34	9.5
				334.5		93.62	0.25	0.00		0.00		0.00													334.5		92.73	0.65	0.00		0.01		0.00	9.2
			LWE	336.5		93.87	0.00	0.00		0.01		0.00													334.6		93.38	0.00	0.00		0.00		0.00	2.1
			grass	337.0		93.87	0.00	0.00		0.00		0.00													339.6		93.38	0.00	0.00		0.00		0.00	2.1
			grass	339.0		93.87	0.00	0.00		0.00		0.00													339.7		93.33	0.05	0.00		0.00		0.00	2.1
				339.5		93.52	0.35	0.05		0.11		0.01																					
			LWE	339.6		93.87	0.00	0.00		0.00		0.00																					
			LWP - 350.2																														



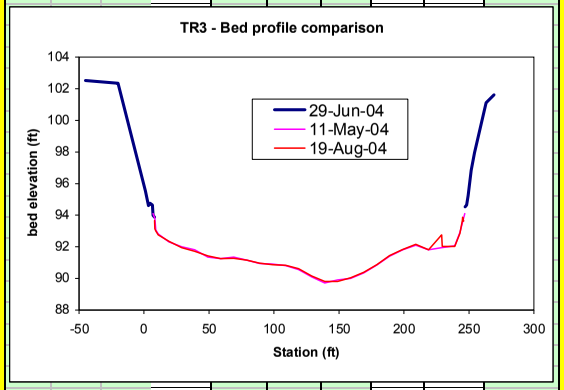
Stream:	Williamson Rive		11-May-04									29-Jun-04										19-Aug-04									
Site:	626			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			Angle	q				Sta	FS	Ground	Depth	Vel (ft/s)			q	
Transect:	2			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(deg)	(cfs)	substrate			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate
Habitat:	Riffle		RWP	1.0										-25.0	6.04	100.17							1.3										
			RWE	18.6		94.01	0.00	0.00		0.00	0.00			-10.0	6.78	99.43							1.3										
Survey	HI	Q		19.6		93.61	0.40	0.00		0.01	0.00			-1.0	8.16	98.05							1.3	RWE	19.9		93.63	0.00	0.00		0.00	0.00	
Date	(ft)	(cfs)		20.6		93.41	0.60	0.00		0.01	0.00		RWP	1.0	9.42	96.79	Right bank HI=106.21						1.3		20.6		93.43	0.20	0.00		0.01	0.00	
5/11/2004	108.09	993.2		21.6		93.21	0.80	0.00		0.01	0.00			2.4	10.05	96.16							1.3		21.6		93.33	0.30	0.00		0.01	0.00	
6/29/2004	109.33	440.6		22.6		93.11	0.90	0.00		0.01	0.00			5.0	10.58	95.63							1.3		22.6		93.10	0.53	0.00		0.01	0.00	
8/19/2004	108.20	401.5		23.6		93.11	0.90	0.12		0.21	0.19			10.0	10.75	95.46							1.2		23.6		93.08	0.55	0.00		0.01	0.00	
				24.6		93.11	0.90	0.93		0.97	2.81			13.0	11.02	95.19							1.2		24.6		93.08	0.55	0.34		0.42	0.74	
				30.0		92.91	1.10	2.05		2.13	20.38			16.0	11.43	94.78							1.2		30.0		92.98	0.65	1.01		1.06	5.98	
Survey	R-HI	Q		42.0		92.41	1.60	1.97		2.05	39.31			19.0	12.10	94.11							1.2		42.0		92.43	1.20	0.60		0.65	9.37	
Date	(ft)	(cfs)		54.0		92.06	1.95	1.87		1.95	45.51		RWE	23.8		93.72	0.00	0.00		0.00		0.00	2.9		54.0		92.13	1.50	0.80		0.85	15.26	
6/29/2004	106.21			66.0		92.01	2.00	2.13		2.21	53.06		*	24.6		93.12	0.60	0.02		0.02		0.04	2.9		66.0		92.01	1.62	1.12		1.17	22.78	
				78.0		91.76	2.25	1.70		1.77	47.80			30.0		92.44	1.28	1.26		1.29		14.35	4.5		78.0		91.83	1.80	0.82		0.87	18.75	
				90.0		92.01	2.00	1.97		2.05	49.14			42.0		92.42	1.30	0.64		0.66		10.31	5.9		90.0		91.93	1.70	0.94		0.98	20.09	
				102.0		91.71	2.30	2.11		2.19	60.46			54.0		92.10	1.62	1.89		1.92		37.28	5.4		102.0		91.63	2.00	0.90		0.94	22.66	
				114.0		91.41	2.60	1.28	2.50	1.96	61.23			66.0		92.00	1.72	1.02		1.05		21.62	5.9		114.0		91.58	2.05	1.14		1.19	29.34	
				126.0		91.61	2.40	2.12		2.20	63.38			78.0		91.82	1.90	0.69		0.71		16.24	5.9		126.0		91.58	2.05	1.52		1.59	39.00	
				138.0		91.66	2.35	2.11		2.19	61.77			90.0		91.84	1.88	1.14		1.17		26.36	5.4		138.0		91.81	1.82	1.39		1.45	31.69	
				150.0		91.81	2.20	1.92		2.00	52.70			102.0		91.74	1.98	1.13		1.16		27.52	5.4		150.0		92.33	1.30	1.19		1.24	19.41	
				162.0		91.86	2.15	2.16		2.24	57.83			114.0		91.62	2.10	1.50		1.53		38.52	5.9		162.0		92.43	1.20	1.01		1.06	15.23	
				174.0		91.96	2.05	1.97		2.05	50.37			126.0		91.60	2.12	1.60		1.63		41.42	5.4		174.0		92.01	1.62	1.06		1.11	21.57	
				186.0		92.36	1.65	2.42		2.51	49.62			138.0		91.74	1.98	1.22		1.25		29.67	6.5		186.0		92.36	1.27	1.38		1.44	21.96	
				198.0		92.51	1.50	2.05		2.13	38.33			150.0		91.87	1.85	1.29		1.32		29.28	6.5		198.0		92.43	1.20	1.45		1.51	21.79	
				210.0		92.51	1.50	1.70		1.77	31.87			162.0		92.02	1.70	1.34		1.37		27.93	6.5		210.0		92.58	1.05	1.12		1.17	14.76	
				222.0		92.51	1.50	1.54		1.61	28.91			174.0		92.52	1.20	1.03		1.06		15.23	5.6		222.0		92.56	1.07	0.96		1.01	12.91	
				234.0		92.46	1.55	1.73		1.80	33.51			186.0		92.42	1.30	1.40		1.43		22.29	5.6		234.0		92.56	1.07	0.95		1.00	12.78	
				246.0		92.61	1.40	1.59		1.66	27.84			198.0		92.49	1.23	1.17		1.20		17.69	5.6		246.0		92.71	0.92	0.72		0.77	8.50	
				258.0		92.41	1.60	1.66		1.73	33.21		*90	210.0		92.52	1.20	1.07		1.10	90	0.00	5.4		258.0		92.42	1.21	0.77		0.82	11.89	
				270.0		92.11	1.90	1.37		1.43	32.62		*10	222.0		92.52	1.20	0.75		0.77	10	10.97	5.4		270.0		92.18	1.45	0.47		0.54	9.31	
				282.0		92.06	1.95	1.29		1.35	31.54		*10	234.0		92.55	1.17	1.11		1.14	10	15.74	5.4		282.0		92.13	1.50	0.49		0.55	9.94	
				294.0		92.41	1.60	1.37		1.43	17.17		*15	246.0		92.65	1.07	0.84		0.86	15	10.73	5.4		294.0		92.53	1.10	0.65		0.70	5.78	
				297.0		92.76	1.25	0.80		0.85	2.39		*15	258.0		92.32	1.40	0.67		0.69	15	11.22	5.9	*	297.0		92.81	0.82	0.01		0.01	0.02	
				298.5		92.91	1.10	0.05		0.11	0.25		*15	270.0		92.22	1.50	0.46		0.48	15	8.39	5.9		298.5		92.93	0.70	0.00		0.01	0.00	
			LWE	301.2		94.01	0.00	0.00		0.00	0.00			282.0		92.09	1.63	0.16		0.21		4.19	5.9	LWE	300.2		93.63	0.00	0.00		0.00	0.00	
			LWP	312.4										294.0		92.72	1.00	0.45		0.47		3.55	5.9										
													*	297.0		92.77	0.95	0.03		0.03		0.06	2.9		* - Estimated Velocity							
													*	298.5		92.97	0.75	0.01		0.01		0.01	2.9									
													LWE	300.8		93.72	0.00	0.00		0.00		0.00	2.9									
														301.2	15.12	94.21							1.1									
														302.9	14.67	94.66							1.2									
														303.7	15.20	94.13							2.1									
														305.6	14.66	94.67	Left bank HI=109.33						2.1									
														307.4	13.96	95.37							1.2									
														309.9	12.50	96.83							1.2									
													LWP	312.4	11.83	97.50							1.2									
														324.4	8.03	101.30							1.3									
														338.4	7.47	101.86							1.3									
																	* - Estimated Velocity															



Stream:	Williamson Rive		11-May-04									29-Jun-04									19-Aug-04										
Site:	626			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			q			Sta	FS	Ground	Depth	Vel (ft/s)			Angle	q	
Transect:	3			(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(cfs)	substrate		(ft)	(ft)	(ft)	(ft)	$V_{0.2/0.6}$	$V_{0.8}$	Ave	(deg)	(cfs)	substrate
Habitat:	Riffle		RWP	1.0										-45.0	5.56	102.52						1.3										
			RWE	6.9		94.11	0.00	0.00		0.00	0.00			-20.0	5.74	102.34						1.3	RWE	8.2		93.67	0.00	0.00		0.00		0.00	1.2
Survey	HI	Q		8.3		93.81	0.30	0.18		0.27	0.08		RWP	1.0	12.55	95.53						1.3		8.3		93.14	0.53	0.00		0.01		0.00	9.2
Date	(ft)	(cfs)		9.0		93.06	1.05	0.02		0.04	0.06			3.5	13.48	94.60						1.3		9.0		93.02	0.65	0.02		0.04		0.04	2.9
5/11/2004	108.09	867.3		11.0		92.81	1.30	1.29		1.35	8.76			4.5	13.33	94.75						1.3		11.0		92.77	0.90	0.24		0.33		1.48	9.2
6/29/2004	109.33			19.0		92.31	1.80	1.17		1.22	19.82			6.5	13.44	94.64						1.3		19.0		92.35	1.32	0.39		0.46		5.50	9.2
8/19/2004	108.20	374.7		29.0		92.01	2.10	1.39		1.45	30.47			7.0	14.09	93.99						1.2		29.0		91.96	1.71	0.70		0.75		12.83	9.6
				39.0		91.81	2.30	1.63		1.70	39.07			8.2	14.20	93.88						1.2		39.0		91.72	1.95	0.60		0.65		12.68	6.5
				49.0		91.36	2.75	0.83	1.48	1.21	33.30													49.0		91.44	2.23	0.57		0.62		13.82	5.6
Survey	R-HI	Q		59.0		91.26	2.85	0.82	1.53	1.23	35.11			247.1	14.80	94.53						1.2		59.0		91.25	2.42	0.69		0.74		17.92	5.4
Date	(ft)	(cfs)		69.0		91.36	2.75	1.07	1.39	1.29	35.35			248.2	14.68	94.65						1.2		69.0		91.27	2.40	0.76		0.81		19.42	5.4
6/29/2004	108.08			79.0		91.16	2.95	1.18	1.51	1.40	41.43			249.3	14.10	95.23						1.3		79.0		91.17	2.50	0.71	0.82	0.81		20.36	5.4
				89.0		90.96	3.15	1.25	1.46	1.41	44.57			251.8	12.50	96.83						1.3		89.0		90.97	2.70	0.70	0.85	0.82		22.24	5.6
				99.0		90.91	3.20	1.28	1.55	1.48	47.26		LWP	254.3	11.38	97.95						1.3		99.0		90.88	2.79	0.78	0.85	0.86		24.07	6.5
				109.0		90.81	3.30	1.14	1.42	1.34	44.13			263.3	8.22	101.11						1.3		109.0		90.84	2.83	0.78	0.78	0.83		23.45	6.5
				119.0		90.56	3.55	1.32	1.47	1.46	51.70			269.3	7.72	101.61						1.3		119.0		90.63	3.04	0.72	0.65	0.74		22.36	6.5
				129.0		90.11	4.00	1.13	1.32	1.28	51.22													129.0		90.17	3.50	0.73	0.75	0.79		27.64	6.5
				139.0		89.71	4.40	1.24	1.35	1.35	59.53													139.0		89.82	3.85	0.53	0.67	0.65		25.12	6.5
				149.0		89.91	4.20	1.10	1.26	1.23	51.82													149.0		89.82	3.85	0.58	0.60	0.64		24.65	6.5
				159.0		90.01	4.10	1.16	1.27	1.27	52.08													159.0		90.05	3.62	0.54	0.61	0.63		22.67	6.5
				169.0		90.36	3.75	1.00	1.24	1.17	43.94													169.0		90.39	3.28	0.56	0.55	0.60		19.83	5.3
				179.0		90.86	3.25	1.15	1.18	1.22	39.60													179.0		90.87	2.80	0.58	0.49	0.59		16.55	5.4
				189.0		91.41	2.70	1.11	1.28	1.25	33.73													189.0		91.46	2.21	0.39		0.46		10.24	5.4
				199.0		91.81	2.30	1.28		1.34	30.76													199.0		91.84	1.83	0.55		0.60		10.97	4.5
				209.0		92.11	2.00	1.23		1.29	25.71												*30	209.0		92.17	1.50	0.40		0.47	30	6.14	4.5
				219.0		91.81	2.30	0.95		1.00	22.89												*30	219.0		91.82	1.85	0.35		0.43	30	6.86	9.4
				229.0		91.96	2.15	0.69		0.74	15.92												*30	229.0		92.77	0.90	0.26		0.35	30	1.42	9.2
				239.0		92.06	2.05	0.47		0.54	7.68													229.5		92.02	1.65	0.37		0.44		3.66	9.1
				243.0		92.91	1.20	0.25		0.34	1.22													239.0		92.02	1.65	0.16		0.25		2.79	9.2
				245.0		93.51	0.60	0.01		0.02	0.02													243.0		92.86	0.81	0.00		0.01		0.00	9.2
			LWE	246.8		94.11	0.00	0.00		0.00	0.00												LWE	245.0		93.67	0.00	0.00		0.00		0.00	2.1
			LWP	254.3																				245.2		93.87	-0.20						2.1
																								245.7		93.67	0.00	0.00		0.00		0.00	2.1
																								245.8		93.62	0.05	0.00		0.01		0.00	2.1
																							LWE	246.0		93.67	0.00	0.00		0.00		0.00	2.1

Right bank HI=108.08

Left bank HI=109.33



```
     Williomson River WM_2 05/11/04
RIFFLE                    HIGH                                    TRANSECT 1
IOC       110110000000100010100O
QARD 160.0
QARD 200.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 379.7
QARD 460.9
QARD 500.0
QARD 550.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 750.0
QARD 800.0
QARD 900.0
QARD 998.5
QARD 1100.
QARD 1200.
QARD 1300.
QARD 1400.
QARD 1500.
QARD 1600.
QARD 1700.
QARD 1800.
QARD 1900.
QARD 2000.
QARD 2100.
QARD 2200.
QARD 2300.
QARD 2500.
XSEC   0.0      0.00 1.0     91.52   0.00120
       0.0-11.0103.1 -4.0 99.1  1.0 95.9  3.0 94.9  4.4 94.4  6.3 94.0
       0.0  6.9 93.9  8.0 93.0 15.0 92.2 30.0 91.6 45.0 91.5 60.0 91.5
       0.0 75.0 91.6 82.0 92.1 90.0 92.5105.0 92.5120.0 92.5135.0 92.3
       0.0150.0 92.2165.0 92.0180.0 92.1195.0 92.1210.0 92.4217.0 92.5
       0.0225.0 92.5233.0 92.5240.0 92.5250.0 92.8260.0 92.8270.0 93.2
       0.0272.5 93.4273.5 93.7274.5 93.3275.5 93.2280.0 93.2295.0 92.9
       0.0310.0 92.4320.0 92.1330.0 92.7333.5 92.8334.5 93.6336.5 93.9
       0.0337.0 93.9339.0 93.9339.5 93.5339.6 93.9341.7 94.2344.7 95.1
       0.0347.2 97.0350.2 98.1358.2100.9374.2101.3
NS     0.0       1.3       1.3       1.3       1.3       1.3       1.2
NS     0.0       1.2       4.8       4.5       5.9       5.9       5.9
NS     0.0       5.9       9.5       5.9       5.9       5.9       5.9
NS     0.0       5.9       5.9       5.4       5.6       5.6       5.4
NS     0.0 .05   5.9       5.4       5.9       5.4       5.9       5.4
NS     0.0       1.1 .05   1.1 .05   1.1       5.4       5.4       5.4
NS     0.0       5.6       6.9       6.9       9.5       9.2       2.1
NS     0.0       2.1       2.1       1.2       1.2       1.2       1.3
NS     0.0       1.3       1.3       1.3       1.3
CAL1   0.0     93.87     998.5
VEL1   0.0                                0.00 0.52 1.82 1.65 1.71 1.67
VEL1   0.0 1.78 1.67 1.81 2.49 2.41 2.30 2.70 2.83 2.52 2.40 2.19 2.05
VEL1   0.0 0.85 2.18 2.14 2.22 1.20 2.21 2.34 0.01 0.01 1.41 1.50 1.78
VEL1   0.0 1.89 2.08 2.32 0.68 0.00 0.01 0.00 0.00 0.11 0.00
VEL1   0.0
CAL2   0.0     93.54     460.9
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     93.38     379.7
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```

```
     Williomson River WM_2 05/11/04
RIFFLE                    HIGH                                    TRANSECT 2
IOC       11011000000001000101000
QARD 160.0
QARD 200.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 379.7
QARD 460.9
QARD 500.0
QARD 550.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 750.0
QARD 800.0
QARD 900.0
QARD 998.5
QARD 1100.
QARD 1200.
QARD 1300.
QARD 1400.
QARD 1500.
QARD 1600.
QARD 1700.
QARD 1800.
QARD 1900.
QARD 2000.
QARD 2100.
QARD 2200.
QARD 2300.
QARD 2500.
XSEC   0.0      0.00 1.0     91.52   0.00120
       0.0-25.0100.2-10.0 99.4 -1.0 98.1  1.0 96.8  2.4 96.2  5.0 95.6
       0.0 10.0 95.5 13.0 95.2 16.0 94.8 18.6 94.0 19.6 93.6 20.6 93.4
       0.0 21.6 93.2 22.6 93.1 23.6 93.1 24.6 93.1 30.0 92.9 42.0 92.4
       0.0 54.0 92.1 66.0 92.0 78.0 91.8 90.0 92.0102.0 91.7114.0 91.4
       0.0126.0 91.6138.0 91.7150.0 91.8162.0 91.9174.0 92.0186.0 92.4
       0.0198.0 92.5210.0 92.5222.0 92.5234.0 92.5246.0 92.6258.0 92.4
       0.0270.0 92.1282.0 92.1294.0 92.4297.0 92.8298.5 92.9301.2 94.0
       0.0302.9 94.7303.7 94.1305.6 94.7307.4 95.4309.9 96.8312.4 97.5
       0.0324.4101.3338.4101.9
NS     0.0       1.3       1.3       1.3       1.3       1.3       1.3
NS     0.0       1.2       1.2       1.2       1.2       1.2       2.9
NS     0.0       2.9       2.9       2.9       2.9       4.5       5.9
NS     0.0       5.4       5.9       5.9       5.4       5.4       5.9
NS     0.0       5.4       6.5       6.5       6.5       5.6       5.6
NS     0.0       5.6       5.4       5.4       5.4       5.4       5.9
NS     0.0       5.9       5.9       5.9       2.9       2.9       1.1
NS     0.0       1.2       2.1       2.1       1.2       1.2       1.2
NS     0.0       1.3       1.3
CAL1   0.0     94.01     998.5
VEL1   0.0                                                 0.00 0.01 0.01
VEL1   0.0 0.01 0.01 0.21 0.97 2.13 2.05 1.95 2.21 1.77 2.05 2.19 1.96
VEL1   0.0 2.20 2.19 2.00 2.24 2.05 2.51 2.13 1.77 1.61 1.80 1.66 1.73
VEL1   0.0 1.43 1.35 1.43 0.85 0.11 0.00
VEL1   0.0
CAL2   0.0     93.72     460.9
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     93.63     379.7
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```

```
     Williomson River WM_2 05/11/04
RIFFLE                     HIGH                                    TRANSECT 3
IOC       1101100000001000101000
QARD 160.0
QARD 200.0
QARD 250.0
QARD 300.0
QARD 350.0
QARD 379.7
QARD 460.9
QARD 500.0
QARD 550.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 750.0
QARD 800.0
QARD 900.0
QARD 998.5
QARD 1100.
QARD 1200.
QARD 1300.
QARD 1400.
QARD 1500.
QARD 1600.
QARD 1700.
QARD 1800.
QARD 1900.
QARD 2000.
QARD 2100.
QARD 2200.
QARD 2300.
QARD 2500.
XSEC   0.0      0.00 1.0     91.52   0.00120
       0.0-45.0102.5-20.0102.3  1.0 95.5  3.5 94.6  4.5 94.7  6.5 94.6
       0.0  6.9 94.1  8.3 93.8  9.0 93.1 11.0 92.8 19.0 92.3 29.0 92.0
       0.0 39.0 91.8 49.0 91.4 59.0 91.3 69.0 91.4 79.0 91.2 89.0 91.0
       0.0 99.0 90.9109.0 90.8119.0 90.6129.0 90.1139.0 89.7149.0 89.9
       0.0159.0 90.0169.0 90.4179.0 90.9189.0 91.4199.0 91.8209.0 92.1
       0.0219.0 91.8229.0 92.0239.0 92.1243.0 92.9245.0 93.5246.8 94.1
       0.0247.1 94.5248.2 94.7249.3 95.2251.8 96.8254.3 97.9263.3101.1
       0.0269.3101.6
NS     0.0       1.3       1.3       1.3       1.3       1.3       1.3
NS     0.0       1.2       9.2 .05   2.9       9.2       9.2       9.6
NS     0.0       6.5       5.6       5.4       5.4       5.4       5.6
NS     0.0       6.5       6.5       6.5       6.5       6.5       6.5
NS     0.0       6.5       5.3       5.4       5.4       4.5       4.5
NS     0.0       9.4       9.2       9.2       9.2 0.2   2.1       1.2
NS     0.0       1.2       1.2       1.3       1.3       1.3       1.3
NS     0.0       1.3
CAL1   0.0     94.11     998.5
VEL1   0.0                              0.00 0.27 0.04 1.35 1.22 1.45
VEL1   0.0 1.70 1.21 1.23 1.29 1.40 1.41 1.48 1.34 1.46 1.28 1.35 1.23
VEL1   0.0 1.27 1.17 1.22 1.25 1.34 1.29 1.00 0.74 0.54 0.34 0.02 0.00
VEL1   0.0
CAL2   0.0     93.79     460.9
VEL2   0.0
VEL2   0.0
VEL2   0.0
VEL2   0.0
CAL3   0.0     93.67     379.7
VEL3   0.0
VEL3   0.0
VEL3   0.0
VEL3   0.0
ENDJ
```