

3-27-2003

Ex. 279-US-436

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Stream: Sycan River
 Site: SY-7 (Upper Sycan River between Paradise and Lone Creek)

Date: 9/20/90
 Habitat: Run

Flow: Low

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	2.53	102.53		
HP1			5.02	97.51
HP2			5.09	97.44
HP3			5.16	97.37
TP				
HP3	5.30	102.67		
HP2			5.23	97.44
HP1			5.16	97.51
BM			2.67	100.00

Comment:

Date: 5/9/91
 Habitat: Run

Flow: Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	2.62	102.62		
HP1			5.09	97.53
HP2			5.17	97.45
HP3			5.24	97.38
TP				
HP3	5.09	102.47		
HP2			5.01	97.46
HP1			4.94	97.53
BM			2.47	100.00

Comment:

Date: 5/25/93
 Habitat: Run

Flow: High

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	5.56	105.56		
HP1			8.03	97.53
HP2			8.10	97.46
HP3			8.18	97.38
TP				
HP3	8.10	105.48		
HP2			8.03	97.45
HP1			7.96	97.52
BM			5.48	100.00

Comment:

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWSE	25.5	102.67	7.90	0.00	94.77	94.77	0.6
	RWSE			7.90	0.00	94.77	94.77	
TR2	LWSE	34	102.67	7.90	0.00	94.77	94.77	1.6
	RWSE			7.90	0.00	94.77	94.77	
TR3	LWSE	51	102.42	7.65	0.00	94.77	94.77	1.8
	RWSE			7.65	0.00	94.77	94.77	

Site Q 1.70
ave Q 1.3

Note: WSE slope = 0.00%

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWSE	25.5	102.47	6.79	0.00	95.68	95.66	65.4
	RWSE			6.84	0.00	95.63	95.63	
TR2	LWSE	34	102.47	6.84	0.00	95.63	95.65	70.1
	RWSE			6.81	0.00	95.66	95.67	
TR3	LWSE	51	102.47	6.78	0.00	95.69	95.67	35.5
	RWSE			6.82	0.00	95.65	95.67	

Site Q 67.7
ave Q 57.0

Note: WSE slope = 0.059%

(2) Water Surface Elevation (WSE) Survey

	L/R WSE (ft)	Sta (ft)	HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
TR1	LWSE	25.5	105.48	8.61	0.00	96.87	96.85	
	RWSE			8.65	0.00	96.83	96.83	
TR2	LWSE	34	105.48	8.60	0.00	96.88	96.86	
	RWSE			8.64	0.00	96.84	96.84	
TR3	LWSE	51	105.48	8.58	0.00	96.90	96.87	269.7
	RWSE			8.64	0.00	96.84	96.84	

Site Q= 269.7
ave Q 269.7

Note: WSE slope = 0.078%

Sycane River SY_7 05/09/91

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RUN                                MID                                TRANSECT 1
IOC      1101100100001000101000
QARD  1.7
QARD  3.0
QARD  5.0
QARD  8.0
QARD 11.0
QARD 14.0
QARD 17.0
QARD 20.0
QARD 23.0
QARD 26.0
QARD 29.0
QARD 33.0
QARD 37.0
QARD 41.0
QARD 45.0
QARD 48.0
QARD 52.0
QARD 56.0
QARD 60.0
QARD 65.0
QARD 67.7
QARD 70.0
QARD 75.0
QARD 80.0
QARD 90.0
QARD 100.0
QARD 120.0
QARD 150.0
QARD 200.0
QARD 269.7
XSEC1000.0      0.00 1.0      93.56  0.0006
      1000.0  0.0 97.4  3.0 96.9  6.0 96.2  7.5 95.7  8.0 95.5  9.5 94.3
      1000.0 10.0 94.1 11.5 94.4 13.0 93.9 14.5 94.1 16.0 93.9 17.5 93.9
      1000.0 19.0 93.9 20.5 94.1 22.0 93.8 23.5 93.7 25.0 93.6 26.5 93.7
      1000.0 28.0 93.7 29.5 93.7 31.0 94.2 32.5 94.3 34.0 95.0 35.4 95.6
NS  1000.0      1.1      1.1      1.1      1.1      1.1      .072  6.2
NS  1000.0 .060  6.2      7.7      6.2      6.2 .04  4.2      4.5
NS  1000.0 .035  5.4      6.5      6.4 .022  5.4      5.4      5.4
NS  1000.0      5.6 .06  6.2 0.1  6.2 0.1  6.2 0.1  7.7      1.1
WSL 1000.0      94.75      94.77      94.80      94.87      94.91      94.94
WSL 1000.0      94.98      95.03      95.08      95.12      95.16      95.22
WSL 1000.0      95.28      95.34      95.39      95.43      95.47      95.52
WSL 1000.0      95.56      95.62      95.65      95.69      95.74      95.79
WSL 1000.0      95.89      96.00      96.15      96.36      96.62      96.86
CAL11000.0      95.66      67.7
VEL11000.0      0.00 0.00 0.35 0.75 1.70 1.70 1.80 1.15 1.90
VEL11000.0 1.40 2.10 2.40 2.90 2.50 2.10 1.40 0.60-0.25-0.25-0.20 0.00
CAL21000.0      94.77      1.7
VEL21000.0
VEL21000.0
CAL31000.0      96.85      269.7
VEL31000.0
VEL31000.0
ENDJ

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RUN                               MID                               TRANSECT 2
IOC      1101100100001000101000
QARD    1.7
QARD    3.0
QARD    5.0
QARD    8.0
QARD   11.0
QARD   14.0
QARD   17.0
QARD   20.0
QARD   23.0
QARD   26.0
QARD   29.0
QARD   33.0
QARD   37.0
QARD   41.0
QARD   45.0
QARD   48.0
QARD   52.0
QARD   56.0
QARD   60.0
QARD   65.0
QARD   67.7
QARD   70.0
QARD   75.0
QARD   80.0
QARD   90.0
QARD  100.0
QARD  120.0
QARD  150.0
QARD  200.0
QARD  269.7
XSEC1000.0      0.00 1.0      93.90  0.0006
      1000.0  0.0 97.2  5.2 95.3  6.7 95.1  8.0 94.0  9.5 94.0 11.0 94.8
      1000.0 12.5 93.9 14.0 93.9 15.5 93.9 17.0 94.0 18.5 93.9 20.0 93.9
      1000.0 21.5 94.1 23.0 93.9 24.5 93.9 26.0 94.0 27.5 94.0 29.0 94.3
      1000.0 30.5 94.4 32.4 95.6
NS  1000.0      1.1 0.08  1.1 0.05  1.1      2.1      2.5 .016  7.7
NS  1000.0      2.5      5.4      4.5      5.4      7.5      5.6
NS  1000.0 .015  6.5      4.6      6.5      6.5 .06  6.2 0.07  6.2
NS  1000.0 0.1  6.2      1.1
WSL 1000.0  94.76  94.78  94.81  94.87  94.91  94.94
WSL 1000.0  94.98  95.03  95.09  95.12  95.17  95.23
WSL 1000.0  95.28  95.34  95.39  95.43  95.48  95.53
WSL 1000.0  95.57  95.63  95.66  95.69  95.74  95.79
WSL 1000.0  95.90  96.00  96.15  96.36  96.63  96.86
CAL11000.0  95.65  67.7
VEL11000.0  -0.10-0.10 1.25 1.75 2.35 2.10 1.75 1.85 1.85 2.10 3.25
VEL11000.0  3.60 2.75 2.80 2.10 0.60-0.15-0.50 0.00
CAL21000.0  94.77  1.7
VEL21000.0
VEL21000.0
CAL31000.0  96.86  269.7
VEL31000.0
VEL31000.0
ENDJ

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RUN                                MID                                TRANSECT 3
IOC      1101100100001000101000
QARD  1.7
QARD  3.0
QARD  5.0
QARD  8.0
QARD 11.0
QARD 14.0
QARD 17.0
QARD 20.0
QARD 23.0
QARD 26.0
QARD 29.0
QARD 33.0
QARD 37.0
QARD 41.0
QARD 45.0
QARD 48.0
QARD 52.0
QARD 56.0
QARD 60.0
QARD 65.0
QARD 67.7
QARD 70.0
QARD 75.0
QARD 80.0
QARD 90.0
QARD 100.0
QARD 120.0
QARD 150.0
QARD 200.0
QARD 269.7
XSEC1000.0      0.00 1.0      93.90  0.0006
      1000.0  0.0 97.2  5.7 95.7  7.4 94.6  8.0 94.4  9.5 94.6 11.0 94.2
      1000.0 12.5 94.1 14.0 94.1 15.5 94.0 17.0 94.1 18.5 94.0 20.0 93.8
      1000.0 21.5 93.8 23.0 93.9 24.5 94.0 26.0 94.5 26.8 94.9 27.5 95.5
      1000.0 29.0 95.6 30.1 95.4 30.5 95.6 31.9 95.8 35.9 95.8
NS  1000.0      1.1      1.1      1.2      2.6      6.2      6.2
NS  1000.0      5.6      5.6      6.5 .068  6.4      4.5      4.5
NS  1000.0      4.5      6.5      5.6      7.2 .021  7.7      7.7
NS  1000.0 .028  7.7 .030  7.7 .040  7.7 .050  7.1 .060  1.1
WSL 1000.0      94.78      94.81      94.84      94.90      94.94      94.97
WSL 1000.0      95.01      95.06      95.11      95.14      95.19      95.25
WSL 1000.0      95.30      95.36      95.41      95.45      95.49      95.54
WSL 1000.0      95.58      95.64      95.67      95.70      95.75      95.80
WSL 1000.0      95.91      96.01      96.16      96.37      96.63      96.86
CAL11000.0      95.67      67.7
VEL11000.0      0.00 0.75 1.20 1.25 1.15 0.90 0.70 0.95 0.65 0.85 1.20
VEL11000.0 1.70 1.65 1.55 1.75 1.85 0.43 0.00 0.55 0.00 0.00
CAL21000.0      94.77      1.7
VEL21000.0
VEL21000.0
CAL31000.0      96.87      269.7
VEL31000.0
VEL31000.0
ENDJ

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Sycane River SY_7 05/09/91

RUN	MID													
PARD	30	1.00	0	1.000										
QARD	1.7	0.00050		10.45	10.45									
QARD	3.0	0.00050		6.20	6.20									
QARD	5.0	0.00051		4.00	4.00									
QARD	8.0	0.00051		2.75	2.80									
QARD	11.0	0.00052		2.20	2.20									
QARD	14.0	0.00052		1.82	1.82									
QARD	17.0	0.00052		1.60	1.60									
QARD	20.0	0.00053		1.48	1.48									
QARD	23.0	0.00053		1.40	1.40									
QARD	26.0	0.00054		1.31	1.31									
QARD	29.0	0.00054		1.25	1.25									
QARD	33.0	0.00055		1.20	1.20									
QARD	37.0	0.00056		1.16	1.16									
QARD	41.0	0.00056		1.13	1.13									
QARD	45.0	0.00057		1.10	1.10									
QARD	48.0	0.00057		1.08	1.08									
QARD	52.0	0.00058		1.06	1.06									
QARD	56.0	0.00058		1.04	1.04									
QARD	60.0	0.00059		1.02	1.02									
QARD	65.0	0.00060		1.01	1.01									
QARD	67.7	0.00060		1.00	1.00									
QARD	70.0	0.00060		1.00	1.00									
QARD	75.0	0.00061		0.99	0.99									
QARD	80.0	0.00062		0.98	0.98									
QARD	90.0	0.00063		0.97	0.97									
QARD	100.0	0.00064		0.96	0.96									
QARD	120.0	0.00067		0.93	0.93									
QARD	150.0	0.00070		0.89	0.89									
QARD	200.0	0.00075		0.83	0.83									
QARD	269.7	0.00080		0.74	0.74									
FFFFTTTT														
	25.5	0.0	97.4	3.0	96.9	6.0	96.2	7.5	95.7	8.0	95.5	9.5	94.3	**
	25.5	10.0	94.1	11.5	94.4	13.0	93.9	14.5	94.1	16.0	93.9	17.5	93.9	
	25.5	19.0	93.9	20.5	94.1	22.0	93.8	23.5	93.7	25.0	93.6	26.5	93.7	
	25.5	28.0	93.7	29.5	93.7	31.0	94.2	32.5	94.3	34.0	95.0	35.4	95.6	
	25.5	.032	3.0	.032	6.0	.032	7.5	.032	8.0					*
	25.5	.032	9.5	.032	10.0	.032	11.5	.032	13.0					*
	25.5	.032	14.5	.032	16.0	.032	17.5	.032	19.0					*
	25.5	.032	20.5	.032	22.0	-.032	23.5	.032	25.0					*
	25.5	.032	26.5	.032	28.0	.032	29.5	.032	31.0					*
	25.5	.032	32.5	.032	34.0	.032	35.4							*
	34.0	0.0	97.2	5.2	95.3	6.7	95.1	8.0	94.0	9.5	94.0	11.0	94.8	
	34.0	12.5	93.9	14.0	93.9	15.5	93.9	17.0	94.0	18.5	93.9	20.0	93.9	
	34.0	21.5	94.1	23.0	93.9	24.5	93.9	26.0	94.0	27.5	94.0	29.0	94.3	
	34.0	30.5	94.4	32.4	95.6									
	34.0	.040	5.2	.040	6.7	.04	8.0	.040	9.5					*
	34.0	.040	11.0	.040	12.5	.04	14.0	-.040	15.5					*
	34.0	.040	17.0	.040	18.5	.04	20.0	.040	21.5					*
	34.0	.040	23.0	.040	24.5	.04	26.0	.040	27.5					*
	34.0	.040	29.0	.040	30.5	.04	32.4							*
	51.0	0.0	97.2	5.7	95.7	7.4	94.6	8.0	94.4	9.5	94.6	11.0	94.2	
	51.0	12.5	94.1	14.0	94.1	15.5	94.0	17.0	94.1	18.5	94.0	20.0	93.8	
	51.0	21.5	93.8	23.0	93.9	24.5	94.0	26.0	94.5	26.8	94.9	27.5	95.5	
	51.0	29.0	95.6	30.1	95.4	30.5	95.6	31.9	95.8	35.9	95.8			
	51.0	0.04	5.7	0.04	7.4	0.04	8.0	0.04	9.5					*
	51.0	0.04	11.0	0.04	12.5	0.04	14.0	0.04	15.5					*
	51.0	0.04	17.0	0.04	18.5	-.04	20.0	0.04	21.5					*
	51.0	0.04	23.0	0.04	24.5	0.04	26.0	0.04	26.8					*
	51.0	0.04	27.5	0.04	29.0	0.04	30.1	0.04	30.5					*
	51.0	0.04	31.9	0.04	35.9									*

ENDJ
ENDR