

5-17-1993

Ex. 279-US-422

Unknown

Follow this and additional works at: <https://digitalcommons.law.uidaho.edu/all>

Recommended Citation

Unknown, "Ex. 279-US-422" (1993). *Hedden-Nicely Collection, All*. 409.
<https://digitalcommons.law.uidaho.edu/all/409>

This Expert Report is brought to you for free and open access by the Hedden-Nicely at Digital Commons @ UIdaho Law. It has been accepted for inclusion in Hedden-Nicely Collection, All by an authorized administrator of Digital Commons @ UIdaho Law. For more information, please contact annablaine@uidaho.edu.

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

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

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

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

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

Comment:

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

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

Comment:

(1) Level Loop Survey (BM & HP)

(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	LWE	585	105.20	10.09	0.00	95.11	95.08	
	RWE			10.15	0.00	95.05		
TR2	LWE	821.6	105.20	10.06	0.00	95.14	95.15	
	RWE			10.04	0.00	95.16		
TR3	LWE	942.6	105.20	10.02	0.00	95.18	95.18	555.0
	RWE			10.02	0.00	95.18		
								Ave Q= 555.0

Note: WSE slope= 0.028%

(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	LWE	585	105.42	13.85	0.00	91.57	91.55	58.0
	RWE			13.9	0.00	91.52		
TR2	LWE	821.6	105.42					
	RWE							
TR3	LWE	942.6	105.42	13.78	0.00	91.64	91.63	58.9
	RWE			13.8	0.00	91.62		
								Ave Q= 58.4

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

(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	LWE	585	104.11	13.41	0.00	90.70	90.71	7.1
	RWE			13.4	0.00	90.71		
TR2	LWE	821.6	104.11	13.29	0.00	90.82	90.82	7.9
	RWE			13.29	0.00	90.82		
TR3	LWE	942.6	104.11	13.3	0.00	90.81	90.83	
	RWE			13.27	0.00	90.84		
								Ave Q= 7.5

Note: WSE slope= 0.034%


```

RUN                                MID                                TRANSECT 1
IOC                                1101100100001000101000
QARD 7.5
QARD 10.0
QARD 20.0
QARD 30.0
QARD 40.0
QARD 50.0
QARD 58.4
QARD 70.0
QARD 80.0
QARD 90.0
QARD 100.0
QARD 120.0
QARD 140.0
QARD 160.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 240.0
QARD 270.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 450.0
QARD 500.0
QARD 555.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 770.0
QARD 856.0
XSEC1000.0      0.00 1.0      90.38  0.00024
1000.0  0.0 97.8  3.0 98.0  6.0 97.6  9.0 97.3 11.0 97.4 13.0 98.0
1000.0 15.0 98.3 17.0 97.7 19.0 97.0 21.0 96.3 23.0 95.6 26.0 94.5
1000.0 29.0 93.3 32.0 92.8 35.0 92.8 38.0 92.6 41.0 92.7 44.0 92.6
1000.0 47.0 92.6 50.0 92.6 53.0 92.7 56.0 92.5 59.0 92.4 62.0 92.2
1000.0 64.5 92.0 67.1 91.5 67.5 91.5 68.0 91.4 69.5 91.1 71.0 90.9
1000.0 72.5 90.6 74.0 90.2 75.5 89.7 77.0 89.4 78.5 89.3 80.0 89.4
1000.0 81.5 89.4 83.0 89.3 84.5 89.3 86.0 89.3 87.5 89.3 89.0 89.4
1000.0 90.5 89.4 92.0 89.3 93.5 89.3 95.0 89.4 96.5 89.6 98.0 89.6
1000.0 99.5 90.2101.0 90.5102.0 91.0103.1 91.5103.3 91.6104.8 92.5
1000.0105.8 93.5107.0 94.2108.1 94.8109.2 98.9110.3100.1111.5100.2
1000.0113.5100.2114.9100.3124.9100.8
NS 1000.0      3.1      3.1      3.1      3.3      3.3      3.3
NS 1000.0      3.3      3.3      3.3      3.3      3.3      3.3
NS 1000.0      3.3      3.3      3.3      3.3      3.3      3.3
NS 1000.0      3.3      3.3      3.3      3.3      3.3      3.3
NS 1000.0 .050 3.3 .045 3.3 3.3 3.3 3.3 3.3 3.3
NS 1000.0      3.5      3.5      3.5      3.5      3.5      3.5
NS 1000.0      3.5      3.5      3.5      3.5      3.5      3.5
NS 1000.0      3.5      3.5      3.5      3.5      3.5      3.5
NS 1000.0      3.5      3.5      3.5      3.1      3.1      3.1
NS 1000.0      3.1      3.1      3.1      3.1      3.1      3.1
NS 1000.0      3.1      3.1      3.1      3.1      3.1      3.1
WSL 1000.0     90.71     90.77     90.98     91.16     91.31     91.44
WSL 1000.0     91.55     91.75     91.91     92.06     92.38     92.58
WSL 1000.0     93.04     93.19     93.32     93.45     93.57     93.68
WSL 1000.0     93.84     94.00     94.24     94.46     94.68     94.88
WSL 1000.0     95.09     95.25     95.42     95.59     95.82     96.08
CAL11000.0     91.55     58.4
VEL11000.0
VEL11000.0
VEL11000.0      0.00 0.18 0.46 0.57 0.53 0.69 0.63 0.82 1.09 1.11
VEL11000.0 0.92 1.21 1.29 0.98 1.24 1.52 1.32 1.27 0.77 1.27 1.08 0.40
VEL11000.0 0.42 0.20 0.11 0.00
VEL11000.0
CAL21000.0     90.71     7.5
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0     95.08     555.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

```

```

RUN                LOW                TRANSECT 2
IOC                1101100100001000101000
QARD 7.5
QARD 10.0
QARD 20.0
QARD 30.0
QARD 40.0
QARD 50.0
QARD 58.4
QARD 70.0
QARD 80.0
QARD 90.0
QARD 100.0
QARD 120.0
QARD 140.0
QARD 160.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 240.0
QARD 270.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 450.0
QARD 500.0
QARD 555.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 770.0
QARD 856.0
XSEC1000.0        0.00 1.0          90.38  0.00034
  1000.0  0.0 98.1  2.3 97.4  2.8 96.1 10.0 94.0 10.5 91.9 12.0 90.8
  1000.0 13.0 89.8 14.5 89.5 16.0 89.8 17.5 89.4 19.0 89.6 20.5 89.4
  1000.0 22.0 89.3 23.5 89.3 25.0 89.3 26.5 89.2 28.0 89.3 29.5 89.3
  1000.0 31.0 89.3 32.5 89.3 34.0 89.3 35.5 89.3 37.0 89.3 38.5 89.4
  1000.0 40.0 89.4 41.5 89.4 43.0 89.5 44.5 89.5 46.0 89.4 47.5 89.5
  1000.0 49.0 89.6 50.5 89.9 52.0 90.3 53.2 90.5 58.0 93.9 77.8 95.2
  1000.0 82.0 97.4 88.2 99.0
NS 1000.0        1.1          1.1          1.1          1.1          1.1          3.9
NS 1000.0  .4    3.9  .4    3.9          3.9  .18    3.9  .18    3.9  .18    3.9
NS 1000.0 0.18  3.9  0.18  3.9  0.18  3.9          3.9          3.9          3.9
NS 1000.0        3.9          3.9          3.9          3.9          3.9          3.9
NS 1000.0  .2    3.9  .2    3.9  .3    3.9          3.9          3.9          3.9
NS 1000.0  .4    3.9  .5    3.9  .5    3.9  .5    3.9          1.1          1.1
NS 1000.0        1.1          1.1
WSL 1000.0    90.81    90.85    91.09    91.27    91.40    91.52
WSL 1000.0    91.62    91.83    91.99    92.14    92.45    92.66
WSL 1000.0    93.10    93.25    93.39    93.52    93.64    93.76
WSL 1000.0    93.92    94.08    94.32    94.53    94.75    94.95
WSL 1000.0    95.15    95.31    95.47    95.64    95.87    96.12
CAL11000.0    90.82          7.5
VEL11000.0                0.00 0.01 0.02 0.22 0.02 0.04 0.01
VEL11000.0  0.03 0.01 0.01 0.23 0.39 0.42 0.34 0.35 0.33 0.22 0.18 0.14
VEL11000.0  0.17 0.08 0.05 0.12 0.12 0.08 0.04-0.01-0.02 0.01
VEL11000.0
CAL21000.0    90.82          7.51
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0    95.15    555.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

```

```

RUN                                MID                                TRANSECT 3
IOC      1101100100001000101000
QARD 7.5
QARD 10.0
QARD 20.0
QARD 30.0
QARD 40.0
QARD 50.0
QARD 58.4
QARD 70.0
QARD 80.0
QARD 90.0
QARD 100.0
QARD 120.0
QARD 140.0
QARD 160.0
QARD 180.0
QARD 200.0
QARD 220.0
QARD 240.0
QARD 270.0
QARD 300.0
QARD 350.0
QARD 400.0
QARD 450.0
QARD 500.0
QARD 555.0
QARD 600.0
QARD 650.0
QARD 700.0
QARD 770.0
QARD 856.0
XSEC1000.0      0.00 1.0      90.38      0.00024
1000.0  0.0 96.9  2.0 96.4  3.6 96.1  4.6 95.4  6.0 95.0  7.3 94.5
1000.0  9.0 93.7 11.0 93.5 13.0 93.4 15.0 92.8 17.0 92.2 19.5 91.5
1000.0 20.0 91.5 21.0 91.3 22.0 91.2 24.0 90.6 26.0 90.4 28.0 90.4
1000.0 30.0 90.4 32.0 90.3 34.0 90.3 36.0 90.2 38.0 90.1 40.0 90.1
1000.0 42.0 90.0 44.0 90.0 46.0 90.0 48.0 89.9 50.0 89.9 52.0 89.9
1000.0 54.0 89.9 56.0 89.9 58.0 89.8 60.0 89.8 62.0 89.8 64.0 89.8
1000.0 66.0 89.8 68.0 89.7 69.0 89.9 69.1 91.6 69.6 90.4 70.0 92.0
1000.0 72.0 92.7 74.0 93.3 75.3 93.8 75.6 94.4 77.0 95.3 78.3 96.1
1000.0 79.9 96.8 81.7 98.3 82.7 99.8 83.4100.0
NS 1000.0      2.3      2.3      2.3      2.3      2.3      2.3
NS 1000.0      2.3      2.3      2.3      2.3      2.3      2.3
NS 1000.0 0.2      2.3 0.2      2.3 0.2      2.3 0.2      2.3      2.3      2.3
NS 1000.0      2.3      2.3      2.3      2.3      2.3      2.3
NS 1000.0      2.3      2.3      2.3      2.3      2.3      2.3
NS 1000.0      2.3 0.08      2.3 0.09      2.3      2.3      2.3      2.3
NS 1000.0      2.3      2.3      2.3      2.3      2.2      2.2
NS 1000.0      2.2      2.2      2.2      2.2
WSL 1000.0  90.84  90.88  91.13  91.30  91.43  91.54
WSL 1000.0  91.64  91.84  92.01  92.16  92.46  92.67
WSL 1000.0  93.11  93.27  93.40  93.54  93.66  93.77
WSL 1000.0  93.94  94.10  94.34  94.56  94.78  94.98
WSL 1000.0  95.18  95.34  95.51  95.67  95.90  96.16
CAL11000.0  91.63  58.4
VEL11000.0
VEL11000.0-0.07-0.02 0.01 0.03 0.32 0.56 0.67 0.64 0.64 0.73 0.77 0.86
VEL11000.0 0.90 1.07 1.01 1.07 1.10 1.01 1.12 1.07 1.00 0.98 0.66 0.71
VEL11000.0 0.74 0.46 0.09 0.00
VEL11000.0
CAL21000.0  90.83  7.5
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
VEL21000.0
CAL31000.0  95.18  555.0
VEL31000.0
VEL31000.0
VEL31000.0
VEL31000.0
ENDJ

```