

12-4-2009

Ex. 280-US-427

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Stream: Sprague River  
 Site: 642  
 Date: 6/20/2006  
 Habitat: Cascade

Flow: High

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	2.93	102.93		100.00
HP1			3.81	99.12
HP2			1.53	101.40
HP3			2.34	100.59
TP				
HP3	2.31	102.90		
HP2			1.50	101.40
BM			2.91	99.99
HP1			3.79	99.11

Comment:

Date: 7/26/2006  
 Habitat: Cascade

Flow: Mid

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	2.67	102.67		100.00
HP1			3.56	99.11
HP2			1.27	101.40
HP3			2.07	100.60
TP				
HP3	2.03	102.63		
HP2			1.23	101.40
BM			2.64	99.99
HP1			3.52	99.11

Comment:

Date: 8/30/2006  
 Habitat: Cascade

Flow: Low

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	14.94	114.94		100.00
HP1			15.83	99.11
HP2			13.54	101.40
HP3			14.34	100.60
TP				
HP3	14.30	114.90		
HP2			13.50	101.40
HP1			15.79	99.11
BM			14.91	99.99

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	River Station		HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
	L/R bank (ft)	Ave (ft)						
1-L	0	0	102.90	7.93	0.68	94.97	94.96	
1-R	0	0	8.63	5.48	0.54	94.95	97.34	
2-L	170	165	102.90	6.19	0.54	97.25	98.33	
2-R	160	274	102.90	4.63	0.31	98.27	98.38	
3-L	270	277		4.83				
3-R	277							

Note: Q taken from SP-2 Upper site on 6/20.  
 WSE slope = 1.230%  
 Ave Q = 551.6

(2) Water Surface Elevation (WSE) Survey

TR	River Station		HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
	L/R bank (ft)	Ave (ft)						
1-L	0	0	102.63	9.51	1.22	94.34	94.31	258.0
1-R	0	0	8.94	6.48	0.58	94.27	96.58	
2-L	170	165	102.63	6.50	0.32	96.45	97.71	262.6
2-R	160	274	102.63	7.85	2.90	97.68	97.74	280.9
3-L	270	277		5.22	0.33			
3-R	277							

Note: WSE slope = 1.245%  
 Ave Q = 267.2

(2) Water Surface Elevation (WSE) Survey

TR	River Station		HI (ft)	FS (ft)	Rod (ft)	WSE (ft)	Ave WSE (ft)	Q (cfs)
	L/R bank (ft)	Ave (ft)						
1-L	0	0	114.90	21.84	1.01	94.07	94.06	220.7
1-R	0	0	107.69	12.70	1.44	96.43	96.23	201.6
2-L	170	160	107.69	12.99	1.32	96.02	97.46	256.4
2-R	160	274	107.69	12.79	2.56	97.46	97.50	
3-L	270	277		115.43	19.15			
3-R	277							

Note: WSE slope = 1.252%  
 Ave Q = 226.2

(3) Meter and propeller ID for Velocity Correction

Meter ID: na  
 Propeller ID: na

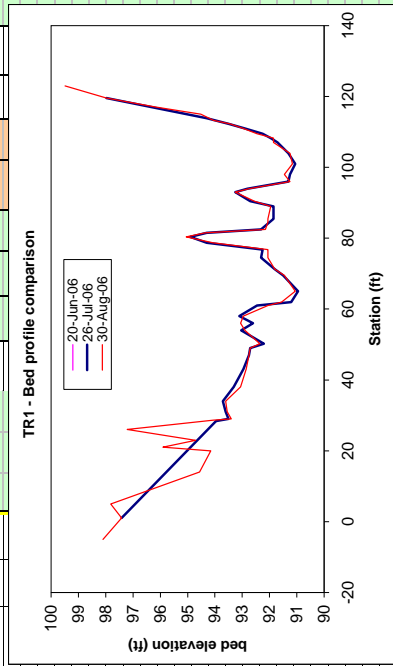
(3) Meter and propeller ID for Velocity Correction

Meter ID: 3602  
 Propeller ID: 3a

(3) Meter and propeller ID for Velocity Correction

Meter ID: 0068  
 Propeller ID: na

Stream: Sprague River	20-Jun-06				26-Jul-06				30-Aug-06										
	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) V <sub>0.8</sub>	Vel (ft/s) NV <sub>0.306</sub>	Angle (deg)	q (cfs)	Substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s) V <sub>0.8</sub>	Vel (ft/s) NV <sub>0.306</sub>	Angle (deg)	q (cfs)	Substrate	
6/20/2006	102.63	258.0								5.0	16.80	98.10							7.2
8/30/2006	114.90	220.7								1.0	17.48	97.42							2.1
										5.0	17.08	97.82							7.1
										14.0	20.34	94.56							6.1
										20.0	20.75	94.15							7.6
										21.0	18.99	95.91							7.6
										23.0	20.19	94.71							7.6
										26.0	17.69	97.21							7.8
										28.7	94.06		0.00	0.00					7.6
										29.0	93.41		0.65	0.00					7.6
										31.0	93.56		0.50	0.00					7.6
										34.0	93.06		0.45	0.00					7.6
										38.0	93.06		1.00	0.05					7.6
										43.0	92.86		1.20	0.45					7.8
										47.0	92.76		1.30	1.02					7.8
										43.0	92.76		1.30	1.02					7.8
										49.0	92.71		1.35	1.52					7.8
										50.2	92.36		1.70	1.13					7.8
										54.0	92.91		1.15	0.11					7.8
										56.0	92.91		1.10	0.11					7.8
										58.0	92.91		1.10	0.11					7.8
										61.0	92.86		1.85	3.29					7.8
										62.0	91.21		3.10	4.01					7.8
										65.0	90.96		3.35	3.42					7.6
										69.5	91.51		2.80	2.02					7.6
										71.3	91.81		2.50	1.82					7.6
										74.5	92.31		2.00	0.54					8.7
										76.8	92.26		2.05	0.10					8.7
										78.7	94.31		0.00	0.00					8.7
										80.4	94.91		-0.60	0.00					8.7
										81.5	94.31		0.00	0.00					8.7
										82.5	92.31		2.00	3.51					7.8
										84.5	92.01		2.30	3.64					7.8
										85.5	91.86		2.45	0.38					7.8
										89.0	91.86		2.45	0.17					7.8
										90.5	92.71		1.60	3.63					7.8
										93.0	93.26		1.05	3.63					7.8
										94.0	92.81		1.50	0.36					7.8
										96.0	91.26		3.05	2.41					7.8
										101.0	91.06		3.25	1.39					7.8
										104.0	91.31		3.00	0.79					7.8
										107.0	91.71		2.60	1.23					7.8
										108.3	91.96		2.35	0.20					7.8
										109.5	92.26		2.05	0.16					7.6
										111.0	92.91		1.40	0.13					7.6
										112.3	93.51		0.80	0.03					7.6
										113.3	94.31		0.00	0.00					7.6
										119.6	97.97								7.6
										115.0	20.38		94.52						7.9
										117.0	18.73		96.17						1.6
										119.6	16.93		97.97						1.6
										123.0	15.41		99.49						4.3







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Sprague River SP_2 07/26/06
Cascade Mid TRANSECT 1
IOC 1101100000001000101000
QARD 80.0
QARD 100.0
QARD 120.0
QARD 140.0
QARD 160.0
QARD 180.0
QARD 209.3
QARD 240.0
QARD 262.7
QARD 280.0
QARD 310.0
QARD 340.0
QARD 370.0
QARD 400.0
QARD 430.0
QARD 470.0
QARD 500.0
QARD 530.0
QARD 551.6
QARD 580.0
QARD 620.0
QARD 670.0
QARD 730.0
QARD 810.0
QARD 900.0
QARD1000.0
QARD1100.0
QARD1200.0
QARD1300.0
QARD1400.0
XSEC 0.0 0.0 1.0 91.06 0.01250
0.0 -5.098.10 1.097.42 5.097.82 14.094.56 20.094.15 21.095.91
0.0 23.094.71 26.097.21 28.493.96 29.093.51 31.093.61 34.093.71
0.0 38.093.31 43.092.96 47.092.76 49.092.71 50.292.21 54.093.04
0.0 56.092.61 58.093.11 61.092.46 62.091.21 65.090.96 69.591.51
0.0 71.391.81 74.592.31 76.892.26 78.794.31 80.494.91 81.594.31
0.0 82.592.31 84.592.01 85.591.86 89.091.86 90.592.71 93.093.26
0.0 94.092.81 96.091.31 98.091.26101.091.06104.091.31107.091.71
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0.0117.096.17119.697.97123.099.49
NS 0.0 7.2 2.1 7.1 6.1 7.6 7.6
NS 0.0 7.6 7.6 7.8 .4 7.6 .4 7.6 .4 7.6
NS 0.0 .35 7.6 .3 7.8 .25 7.8 .11 7.8 0.32 7.8 0.5 7.8
NS 0.0 7.8 7.8 7.6 7.6 7.6 8.7
NS 0.0 8.7 8.7 0.5 8.7 0.2 7.8 0.2 7.8 0.08 7.8
NS 0.0 .09 7.8 7.8 .4 7.8 0.25 7.8 .07 7.8 .052 7.8
NS 0.0 .20 7.8 .15 7.8 7.8 7.8 7.8 7.8
NS 0.0 7.6 7.6 7.6 0.3 7.6 7.9 1.7
NS 0.0 1.6 1.6 4.3
CAL1 0.0 94.31 262.7
VEL1 0.0 0.15 0.16 0.15 0.15
VEL1 0.0 0.15 0.48 0.74 2.36 0.52 0.19 2.21 1.55 3.32 2.49 2.89 1.81
VEL1 0.0 1.52 0.56 0.16 0.00 0.00 3.54 3.67 0.35 0.67 3.66 3.66
VEL1 0.0 0.39 1.28 2.65 2.90 1.82 1.98 0.25 0.79 0.66 0.09 0.00
VEL1 0.0
CAL2 0.0 94.06 209.3
VEL2 0.0
VEL2 0.0
VEL2 0.0
VEL2 0.0
VEL2 0.0
CAL3 0.0 94.96 551.7
VEL3 0.0
VEL3 0.0
VEL3 0.0
VEL3 0.0
ENDJ
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Sprague River SP_2 07/26/06
Cascade Mid TRANSECT 2
IOC 110110000001000101000
QARD 80.0
QARD 100.0
QARD 120.0
QARD 140.0
QARD 160.0
QARD 180.0
QARD 209.3
QARD 240.0
QARD 262.7
QARD 280.0
QARD 310.0
QARD 340.0
QARD 370.0
QARD 400.0
QARD 430.0
QARD 470.0
QARD 500.0
QARD 530.0
QARD 551.6
QARD 580.0
QARD 620.0
QARD 670.0
QARD 730.0
QARD 810.0
QARD 900.0
QARD1000.0
QARD1100.0
QARD1200.0
QARD1300.0
QARD1400.0
XSEC 0.0 0.0 1.0 93.53 0.01250
0.0 1.0102.7 10.0100.9 15.099.39 20.098.84 30.096.77 31.096.38
0.0 33.095.73 36.095.28 37.095.33 40.094.68 43.095.23 46.094.98
0.0 50.094.78 51.094.98 55.094.68 60.094.23 63.094.68 64.596.03
0.0 67.094.18 69.394.98 69.596.88 70.597.98 73.396.58 73.494.68
0.0 74.094.43 76.094.38 80.094.08 85.593.88 90.094.28 95.094.78
0.0100.094.08103.093.58105.094.68107.095.03109.596.53111.094.48
0.0112.594.88114.095.58116.595.33120.095.08122.096.08125.596.08
0.0128.095.68131.096.33133.296.58136.097.95139.097.28142.399.59
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NS 0.0 1.2 1.2 1.2 1.1 1.1 7.2
NS 0.0 .35 7.2 7.2 7.2 8.7 7.8 0.5 7.8
NS 0.0 7.8 7.8 8.7 8.7 .25 7.8 .05 7.8
NS 0.0 7.8 7.8 7.8 7.8 7.8 7.8 7.8
NS 0.0 7.8 7.8 7.8 7.8 7.8 7.8 7.8
NS 0.0 .15 7.8 .08 7.8 7.8 7.8 .08 7.8 .08 7.8
NS 0.0 7.8 7.8 7.8 .30 7.8 7.8 7.6
NS 0.0 7.6 .4 7.6 7.6 7.9 7.1 6.1
NS 0.0 3.5
CAL1 0.0 96.58 262.7
VEL1 0.0 0.00 0.15 0.63 0.93 1.25 1.12 0.20
VEL1 0.0 0.74 1.72 1.28 0.93 0.55 3.52 2.30 2.20 0.00 0.53
VEL1 0.0 1.18 2.30 0.88 1.45 2.72 2.28 1.44 3.05 2.69 3.72 0.03 1.91
VEL1 0.0 3.75 2.30 2.76 0.21 1.76 2.10 0.82 1.35 0.00
VEL1 0.0
CAL2 0.0 96.43 209.3
VEL2 0.0
VEL2 0.0
VEL2 0.0
VEL2 0.0
VEL2 0.0
CAL3 0.0 97.34 551.7
VEL3 0.0
VEL3 0.0
VEL3 0.0
VEL3 0.0
VEL3 0.0
ENDJ
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Sprague River SP\_2 07/26/06

Cascade Mid TRANSECT 3  
 IOC 1101100000001000101000  
 QARD 80.0  
 QARD 100.0  
 QARD 120.0  
 QARD 140.0  
 QARD 160.0  
 QARD 180.0  
 QARD 209.3  
 QARD 240.0  
 QARD 262.7  
 QARD 280.0  
 QARD 310.0  
 QARD 340.0  
 QARD 370.0  
 QARD 400.0  
 QARD 430.0  
 QARD 470.0  
 QARD 500.0  
 QARD 530.0  
 QARD 551.6  
 QARD 580.0  
 QARD 620.0  
 QARD 670.0  
 QARD 730.0  
 QARD 810.0  
 QARD 900.0  
 QARD1000.0  
 QARD1100.0  
 QARD1200.0  
 QARD1300.0  
 QARD1400.0  
 XSEC 0.0 0.0 1.0 93.98 0.01250  
 0.0 1.0102.1 18.098.86 21.098.77 26.097.71 28.097.11 30.097.21  
 0.0 30.797.71 33.5100.2 35.097.11 35.597.71 39.596.51 42.595.96  
 0.0 45.095.41 50.094.51 55.094.31 60.094.01 65.094.81 67.094.16  
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 NS 0.0 .2 8.6 8.6 .046 8.6 8.6 8.6 .1 8.6  
 NS 0.0 6.7 6.5 .2 6.2 6.5 1.2 6.1  
 CAL1 0.0 97.71 262.7  
 VEL1 0.0 0.00 0.00 0.00 0.00 0.00 0.03 0.15 0.34  
 VEL1 0.0 0.27 0.17 1.20 0.44 1.37 1.65 2.32 1.17 1.47 1.22 2.80 0.22  
 VEL1 0.0 1.05 3.85 2.59 3.54 1.79 2.08 0.20 2.03 3.83 1.66 0.51  
 VEL1 0.0 1.33 1.23 0.20 0.00  
 CAL2 0.0 97.48 209.3  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 CAL3 0.0 98.33 551.7  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 ENDJ  
 →



Stream: Sprague River  
 Site: 642  
 Date: 6/20/2006  
 Habitat: Riffle

Flow: High

Date: 7/26/2006  
 Habitat: Riffle

Flow: Mid

Date: 8/30/2006  
 Habitat: Riffle

Flow: Low

(1) Level Loop Survey (BM & HP)

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	4.10	104.10		100.00
HP3			2.86	101.24
HP2			4.18	99.92
HP1			3.80	100.30
TP				
HP1	4.02	104.32		100.00
BM			4.32	100.00
HP2			4.40	99.92
HP3			3.09	101.23

Comment:

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
BM	3.43	103.43		100.00
HP2			3.51	99.92
HP1			3.11	100.32
HP3			2.20	101.23
TP				
HP3	2.29	103.52		99.92
HP2			3.60	100.32
HP1			3.20	100.32
BM			3.52	100.00

Comment:

(1) Level Loop Survey

BM/HP (ft)	BS (ft)	HI (ft)	FS (ft)	Elev (ft)
HP3	9.56	110.79		101.23
TP-BM			10.79	100.00
BM	8.45	108.45		
HP2			8.53	99.92
TP			8.14	100.31
HP1	8.10	108.41		100.00
BM			8.41	100.00
TP			8.49	99.92
HP2	10.85	110.77		101.23
HP3			9.54	101.23

Comment:

(2) Water Surface Elevation (WSE) Survey

TR	River Station		Rod (ft)	FS (ft)	HI (ft)	Ave (ft)	WSE (ft)	Q (cfs)
	L/R bank (ft)	Ave (ft)						
1-L	0	0	0.36	10.35	104.32	94.33	94.32	
1-R	0	0	1.60	11.62	110.30	94.30	94.30	
2-L	143	135	0.43	9.81	104.32	94.94	94.92	
2-R	127	127	1.64	11.07	110.77	94.89	94.89	
3-L	360	386	0.72	8.63	104.32	96.41	96.45	551.6
3-R	412	412	1.79	9.63	104.32	96.48	96.48	551.6

Note: WSE slope = 0.552%

Ave Q= 551.6

(2) Water Surface Elevation (WSE) Survey

TR	River Station		Rod (ft)	FS (ft)	HI (ft)	Ave (ft)	WSE (ft)	Q (cfs)
	L/R bank (ft)	Ave (ft)						
1-L	0	0	0.49	10.25	103.52	93.76	93.76	268.4
1-R	0	0	1.04	10.80	110.30	93.76	93.76	268.4
2-L	143	135	0.55	9.79	103.52	94.28	94.33	265.4
2-R	127	127	0.55	9.70	110.77	94.37	94.37	265.4
3-L	360	386	0.89	8.46	103.52	95.95	95.93	240.7
3-R	412	412	1.45	9.07	103.52	95.90	95.90	240.7

Note: WSE slope = 0.561%

Ave Q= 258.2

(2) Water Surface Elevation (WSE) Survey

TR	River Station		Rod (ft)	FS (ft)	HI (ft)	Ave (ft)	WSE (ft)	Q (cfs)
	L/R bank (ft)	Ave (ft)						
1-L	0	0	0.29	12.78	106.06	93.57	93.55	207
1-R	0	0	0.41	12.95	106.06	93.52	93.52	207
2-L	143	135	0.31	9.45	103.23	94.09	94.14	198.9
2-R	127	127	0.40	9.44	110.77	94.19	94.19	198.9
3-L	360	386	0.70	14.73	109.78	95.75	95.74	171.2
3-R	412	412	1.42	15.48	109.78	95.72	95.72	171.2

Note: WSE slope = 0.567%

Ave Q= 192.4

(3) Meter and propeller ID for Velocity Correction

Meter ID: 3602  
 Propeller ID: 3a

(3) Meter and propeller ID for Velocity Correction

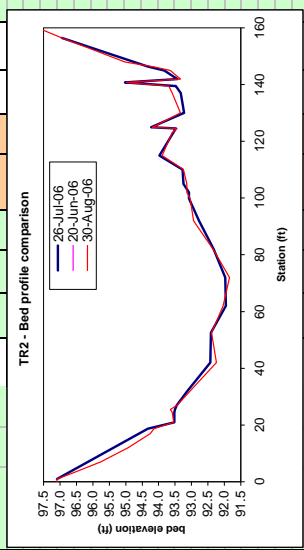
Meter ID: 3602  
 Propeller ID: 3a

(3) Meter and propeller ID for Velocity Correction

Meter ID: 0068  
 Propeller ID: NA



Stream: Sprague River	Site: 642	20-Jun-06						26-Jul-06						30-Aug-06						
		Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	substrate	Sta (ft)	FS (ft)	Ground (ft)	Depth (ft)	Vel (ft/s)	substrate	
Habitat: Riffle																				
Survey HI O																				
Date (ft) (cfs)																				
6/20/2006 104.33																				
7/26/2006 103.52																				
8/30/2006 103.23																				





Riffle  
IOC 110110000001000101000

QARD 80.0  
QARD 100.0  
QARD 120.0  
QARD 140.0  
QARD 160.0  
QARD 180.0  
QARD 209.3  
QARD 240.0  
QARD 262.7  
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QARD 310.0  
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QARD 370.0  
QARD 400.0  
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QARD 470.0  
QARD 500.0  
QARD 530.0  
QARD 551.6  
QARD 580.0  
QARD 620.0  
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XSEC 0.0 0.0 1.0 91.36 0.00560  
0.0-19.099.94 -9.098.15 1.096.70 3.096.75 7.095.60 11.094.01  
0.0 15.093.92 19.093.92 23.093.80 24.093.76 27.093.46 30.093.26  
0.0 32.093.16 35.093.11 37.092.91 40.093.06 45.092.71 50.092.21  
0.0 55.092.16 60.091.96 66.091.56 70.092.06 72.092.16 84.091.66  
0.0 94.092.26 99.091.46101.291.36103.093.71105.691.56109.091.56  
0.0114.091.81120.092.36128.092.66132.592.66135.092.76139.092.86  
0.0142.393.56143.593.31144.593.46145.093.21147.093.06149.592.76  
0.0150.393.66152.693.76153.093.96157.094.96160.996.21170.098.22  
0.0176.098.69

NS 0.0 2.1 7.2 2.1 7.2 1.2 1.2 1.2  
NS 0.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2  
NS 0.0 6.7 0.1 6.7 7.6 6.7 7.6 .15 6.7  
NS 0.0 6.7 .18 6.7 7.6 7.6 .065 6.7 7.6  
NS 0.0 7.6 7.6 7.6 .04 7.6 7.6 6.7  
NS 0.0 .150 7.6 6.7 6.7 0.2 7.6 6.7 7.6  
NS 0.0 .045 7.6 .15 7.6 .1 7.6 7.6 8.2  
NS 0.0 .1 9.2 1.2 1.2 2.1 2.1 2.1  
NS 0.0 2.1  
CAL1 0.0 93.76 262.7  
VEL1 0.0  
VEL1 0.0 1.20 0.03 0.58 1.50 1.03 0.67 1.04 2.00 0.71 1.55 2.64 1.56  
VEL1 0.0 2.46 2.73 3.00 0.25 2.92 2.03 0.79 0.94 0.88 0.16 1.54 1.42  
VEL1 0.0 1.39 0.01 0.16 1.13 1.10 0.38 0.60 0.00  
VEL1 0.0  
CAL2 0.0 93.55 209.3  
VEL2 0.0  
VEL2 0.0  
VEL2 0.0  
VEL2 0.0  
VEL2 0.0  
CAL3 0.0 94.32 551.6  
VEL3 0.0  
VEL3 0.0  
VEL3 0.0  
VEL3 0.0  
VEL3 0.0  
ENDJ

Riffle

MID

TRANSECT 2

IOC 1101100000001000101000

QARD 80.0  
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 QARD 470.0  
 QARD 500.0  
 QARD 530.0  
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 QARD 620.0  
 QARD 670.0  
 QARD 730.0  
 QARD 810.0  
 QARD 900.0  
 QARD1000.0  
 QARD1100.0  
 QARD1200.0  
 QARD1300.0  
 QARD1400.0

XSEC 0.0 0.0 1.0 91.96 0.00560  
 0.0-17.098.01 -7.097.08 1.097.09 3.096.63 7.095.77 12.094.92  
 0.0 17.094.25 18.794.33 21.093.53 24.593.53 25.593.51 27.093.45  
 0.0 32.093.13 42.092.43 52.592.41 62.091.96 72.091.98 82.092.33  
 0.0 92.092.78 99.893.08102.093.08105.093.25110.093.28115.093.98  
 0.0124.593.48125.094.23130.093.23137.093.33139.593.48140.895.03  
 0.0142.093.43145.093.83146.494.33148.095.02152.095.94156.596.94  
 0.0166.098.94

NS 0.0 3.7 1.2 1.2 3.2 1.2 1.2  
 NS 0.0 1.2 6.2 6.2 6.7 .2 6.7 6.5  
 NS 0.0 5.7 .22 7.6 7.6 6.5 5.6 6.7  
 NS 0.0 6.7 .09 6.7 .22 7.6 7.6 6.7 .038 7.6  
 NS 0.0 .08 6.7 .065 6.7 6.7 5.6 7.6 .05 7.6  
 NS 0.0 7.6 7.2 2.6 1.2 1.2 1.2  
 NS 0.0 1.2

CAL1 0.0 94.33 262.7  
 VEL1 0.0 0.00 1.07 0.63 0.16 0.76  
 VEL1 0.0 0.71 0.62 0.89 1.68 2.82 2.03 2.28 1.18 0.16 1.00 1.61 1.67  
 VEL1 0.0 0.84 0.32 1.50 1.31 1.23 0.74 0.69 0.00

CAL2 0.0 94.14 209.3  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 CAL3 0.0 94.92 551.6

VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0

ENDJ

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Riffle MID TRANSECT 3  
 IOC 1101100000001000101000  
 QARD 80.0  
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 QARD 140.0  
 QARD 160.0  
 QARD 180.0  
 QARD 209.3  
 QARD 240.0  
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 QARD 280.0  
 QARD 310.0  
 QARD 340.0  
 QARD 370.0  
 QARD 400.0  
 QARD 430.0  
 QARD 470.0  
 QARD 500.0  
 QARD 530.0  
 QARD 551.6  
 QARD 580.0  
 QARD 620.0  
 QARD 670.0  
 QARD 730.0  
 QARD 810.0  
 QARD 900.0  
 QARD1000.0  
 QARD1100.0  
 QARD1200.0  
 QARD1300.0  
 QARD1400.0  
 XSEC 0.0 0.0 1.0 93.33 0.00560  
 0.0-19.0104.9 -9.0103.2 1.099.35 5.098.23 11.097.16 15.096.24  
 0.0 17.095.96 17.995.93 18.095.78 20.095.61 24.095.01 27.095.43  
 0.0 30.095.25 40.094.68 50.094.58 60.094.88 61.296.08 70.094.66  
 0.0 79.094.73 80.095.88 83.094.98 85.094.93 90.094.38 90.594.33  
 0.0 91.595.48 92.995.21 93.094.41100.093.95110.093.63120.093.33  
 0.0126.094.05127.095.61129.093.53130.093.93140.093.93150.093.78  
 0.0160.093.81170.094.13180.094.33190.094.93194.094.85197.094.41  
 0.0198.594.83198.695.93200.096.84205.098.17209.099.26210.299.36  
 0.0220.099.08230.099.42  
 NS 0.0 3.2 3.2 3.2 3.1 7.1 2.1  
 NS 0.0 1.2 9.2 .15 9.2 .15 9.7 .15 7.2 .09 7.2  
 NS 0.0 6.7 6.7 6.7 .15 6.7 .055 6.7 6.5  
 NS 0.0 .08 6.7 .045 6.7 6.5 6.5 .3 6.7 .3 6.7  
 NS 0.0 7.6 .2 7.6 7.6 6.5 4.5 4.5  
 NS 0.0 6.5 6.7 6.7 6.7 6.7 7.6  
 NS 0.0 6.7 .18 5.6 5.6 6.5 .1 4.6 .09 4.6  
 NS 0.0 .1 4.6 9.2 2.1 1.2 1.2 1.2  
 NS 0.0 1.2 1.2  
 CAL1 0.0 95.93 262.7  
 VEL1 0.0 0.00 0.15 0.00 0.30 1.06  
 VEL1 0.0 0.85 1.05 0.75 0.40 1.99 0.98 0.96 1.23 1.97 0.15 0.15  
 VEL1 0.0 0.00 0.22 0.53 0.68 0.76 0.65 0.84 0.71 0.74 1.68 0.91 0.80  
 VEL1 0.0 1.39 0.78 1.03 1.12 1.32 0.71 0.15 0.00  
 VEL1 0.0  
 CAL2 0.0 95.74 209.3  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 VEL2 0.0  
 CAL3 0.0 96.45 551.6  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 VEL3 0.0  
 ENDJ  
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