



FIELD DATA FOR INSTREAM FLOW DETERMINATIONS



COLORADO WATER
CONSERVATION BOARD

LOCATION INFORMATION

STREAM NAME: <u>Big Dominguez Creek</u>		CROSS-SECTION NO.: <u>1</u>	
CROSS-SECTION LOCATION: <u>0.4 mi up from mouth</u>			
DATE: <u>2/23/07</u>	OBSERVERS: <u>Smith, Choy</u>		
LEGAL DESCRIPTION:	1/4 SECTION: <u>NE</u>	SECTION: <u>19</u>	TOWNSHIP: <u>14 N S</u>
COUNTY: <u>Mesa</u>	WATERSHED: <u>Gunnison</u>	WATER DIVISION: <u>4</u>	RANGE: <u>98 E W</u> PM: <u>6:44</u>
MAP(S):	USGS:	DOW WATER CODE: <u>39811</u>	
	USFS:	UTM: (zone 12) <u>0727301, 4300789</u>	

SUPPLEMENTAL DATA

SAG TAPE SECTION SAME AS DISCHARGE SECTION: ☒ YES ☐ NO	METER TYPE: <u>Marsh-McBirney</u>
METER NUMBER: <u>80</u>	DATE RATED: <u>surveyed</u>
CALIB/SPIN: <u>sec</u>	TAPE WEIGHT: <u>lbs/foot</u>
CHANNEL BED MATERIAL SIZE RANGE: <u>sand to 2-foot boulders</u>	TAPE TENSION: <u>surveyed</u> lbs
PHOTOGRAPHS TAKEN: ☒ YES ☐ NO	NUMBER OF PHOTOGRAPHS: <u>3</u>

CHANNEL PROFILE DATA

STATION	DISTANCE FROM TAPE (ft)	ROD READING (ft)	SKETCH	LEGEND:
⊗ Tape @ Stake LB	0.0	<u>surveyed</u>		
⊗ Tape @ Stake RB	0.0	<u>surveyed</u>		
① WS @ Tape LB/RB	0.0	<u>7.36/7.38</u>		
② WS Upstream	<u>43.0</u>	<u>7.16</u>		
③ WS Downstream	<u>76.0</u>	<u>9.00</u>		
SLOPE	<u>1.84/119.0 =</u>			

Sketch showing a cross-section of the stream with a central tape line. Station 1 is at the water surface on the left, station 2 is at the water surface on the right, and station 3 is at the bottom of the channel. Arrows indicate the direction of flow from left to right.

AQUATIC SAMPLING SUMMARY

STREAM ELECTROFISHED: ☒ YES ☐ NO	DISTANCE ELECTROFISHED: <u>ft</u>	FISH CAUGHT: YES/NO	WATER CHEMISTRY SAMPLED: ☒ YES ☐ NO														
LENGTH - FREQUENCY DISTRIBUTION BY ONE-INCH SIZE GROUPS (1.0-1.9, 2.0-2.9, ETC.)																	
SPECIES (FILL IN)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	>15	TOTAL
<u>mayfly</u>																	
<u>caddisfly</u>																	
AQUATIC INSECTS IN STREAM SECTION BY COMMON OR SCIENTIFIC ORDER NAME:																	
<u>mayfly, caddisfly</u>																	

COMMENTS

TDS = <u>370</u> μ S/cm
stream temp = <u>38°</u> F

DISCHARGE/CROSS SECTION NOTES

STREAM NAME:

Big Dominguez Ck

CROSS-SECTION NO.:

1

DATE:

2/23/07

SHEET 1 OF 1

BEGINNING OF MEASUREMENT

EDGE OF WATER LOOKING DOWNSTREAM:
(0.0 AT STAKE)

LEFT / RIGHT

Gage Reading:

ft

TIME:

9:10 am

Features	Stake (S) Grassline (G) Waterline (W) Rock (R)	Distance From Initial Point (ft)	Width (ft)	Total Vertical Depth From Tape/Inst (ft)	Water Depth (ft)	Depth of Observation (ft)	Revolutions	Time (sec)	Velocity (ft/sec)		Area (ft ²)	Discharge (cfs)
									At Point	Mean in Vertical		
	RS	0.0		5.12								
	G	2.5		6.02								
		5.1		6.74								
	W	7.5		7.38								
		8.0		7.56	0.20				0			
		8.5		7.75	0.40				0.06			
		9.0		7.70	0.35				0.80			
		9.5		7.80	0.45				1.41			
		10.0		7.69	0.35				1.53			
		10.5		8.03	0.65				1.34			
		11.0		7.99	0.65				1.62			
		11.5		8.02	0.65				0.92			
		12.0		8.08	0.70				1.17			
		12.5		8.05	0.70				0.91			
		13.0		8.00	0.65				1.48			
		13.5		7.87	0.50				1.16			
		14.0		7.80	0.45				0.25			
		14.5		7.52	0.75				0.95			
		15.0		7.50	0.15				0.71			
		15.5		7.58	0.25				0.74			
		16.0		7.71	0.35				0.36			
		17.0		7.55	0.70				0			
		18.0		7.56	0.70				0			
		19.0		7.37	0.0				0			
	W	20.0		7.36								
		22.0		6.42								
	G	23.5		5.95								
	LS	25.5		5.42								
TOTALS:												

End of Measurement

Time: 9:22

Gage Reading:

ft

CALCULATIONS PERFORMED BY:

CALCULATIONS CHECKED BY:

Data Input & Proofing

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 0.4 mile upstream from mouth
 XS NUMBER: 1
 DATE: 2/23/07
 OBSERVERS: R. Smith, M. Choy

1/4 SEC: NE
 SECTION: 19
 TWP: 14 S
 RANGE: 98 W
 PM: Sixth

COUNTY: Mesa
 WATERSHED: Gunnison
 DIVISION: 4
 DOW CODE: 39811
 USGS MAP: Triangle Mesa
 USFS MAP:

TAPE WT: 0.0106 lbs / ft
 TENSION: 99999 lbs

SLOPE: 0.015 ft / ft

CHECKED BY:DATE:

ASSIGNED TO:DATE:

GL=1	FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL	A	Q	Tape to Water
Total Data Points = 28								
1	RS	0	5.12			0.00	0.00	0.00
	G	2.5	6.02			0.00	0.00	0.00
		5.1	6.74			0.00	0.00	0.00
	W	7.6	7.38			0.00	0.00	0.00
		8	7.56	0.20	0.00	0.09	0.00	7.36
		8.5	7.75	0.40	0.06	0.20	0.01	7.35
		9	7.70	0.35	0.80	0.18	0.14	7.35
		9.5	7.80	0.45	1.41	0.23	0.32	7.35
		10	7.69	0.35	1.53	0.18	0.27	7.34
		10.5	8.03	0.65	1.34	0.33	0.44	7.38
		11	7.99	0.65	1.62	0.33	0.53	7.34
		11.5	8.02	0.65	0.92	0.33	0.30	7.37
		12	8.08	0.70	1.17	0.35	0.41	7.38
		12.5	8.05	0.70	0.91	0.35	0.32	7.35
		13	8.00	0.65	1.48	0.33	0.48	7.35
		13.5	7.87	0.50	1.16	0.25	0.29	7.37
		14	7.80	0.45	0.25	0.23	0.06	7.35
		14.5	7.52	0.15	0.95	0.08	0.07	7.37
1		15	7.50	0.15	0.71	0.08	0.05	7.35
		15.5	7.58	0.25	0.74	0.13	0.09	7.33
		16	7.71	0.35	0.36	0.26	0.09	7.36
		17	7.55	0.20	0.00	0.20	0.00	7.35
		18.00	7.56	0.20	0.00	0.20	0.00	7.36
	W	19.00	7.37			0.00	0.00	0.00
		20.00	7.36			0.00	0.00	0.00
		22.00	6.42			0.00	0.00	0.00
1	G	23.50	5.95			0.00	0.00	0.00
	LS	25.50	5.42			0.00	0.00	0.00

Totals 4.28 3.86

COLORADO WATER CONSERVATION BOARD
INSTREAM FLOW / NATURAL LAKE LEVEL PROGRAM
STREAM CROSS-SECTION AND FLOW ANALYSIS

LOCATION INFORMATION

STREAM NAME: Big Dominguez Creek
XS LOCATION: 0.4 mile upstream from mouth
XS NUMBER: 1

DATE: 23-Feb-07
OBSERVERS: R. Smith, M. Choy

1/4 SEC: NE
SECTION: 19
TWP: 14 S
RANGE: 98 W
PM: Sixth

COUNTY: Mesa
WATERSHED: Gunnison
DIVISION: 4
DOW CODE: 39811

USGS MAP: Triangle Mesa
USFS MAP: 0

SUPPLEMENTAL DATA

*** NOTE ***

Leave TAPE WT and TENSION
at defaults for data collected
with a survey level and rod

TAPE WT: 0.0106
TENSION: 99999

CHANNEL PROFILE DATA

SLOPE: 0.015

INPUT DATA CHECKED BY:DATE.....

ASSIGNED TO:DATE.....

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 0.4 mile upstream from mouth
 XS NUMBER: 1

DATA POINTS= 28

VALUES COMPUTED FROM RAW FIELD DATA

FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL
RS	0.00	5.12		
1 G	2.50	6.02		
	5.10	6.74		
W	7.60	7.38		
	8.00	7.56	0.20	0.00
	8.50	7.75	0.40	0.06
	9.00	7.70	0.35	0.80
	9.50	7.80	0.45	1.41
	10.00	7.69	0.35	1.53
	10.50	8.03	0.65	1.34
	11.00	7.99	0.65	1.62
	11.50	8.02	0.65	0.92
	12.00	8.08	0.70	1.17
	12.50	8.05	0.70	0.91
	13.00	8.00	0.65	1.48
	13.50	7.87	0.50	1.16
	14.00	7.80	0.45	0.25
	14.50	7.52	0.15	0.95
	15.00	7.50	0.15	0.71
	15.50	7.58	0.25	0.74
	16.00	7.71	0.35	0.36
	17.00	7.55	0.20	0.00
	18.00	7.56	0.20	0.00
	19.00	7.37		
W	20.00	7.36		
	22.00	6.42		
1 G	23.50	5.95		
LS	25.50	5.42		

WETTED PERIM.	WATER DEPTH	AREA (Am)	Q (Qm)	% Q CELL
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.44	0.20	0.09	0.00	0.0%
0.53	0.40	0.20	0.01	0.3%
0.50	0.35	0.18	0.14	3.6%
0.51	0.45	0.23	0.32	8.2%
0.51	0.35	0.18	0.27	6.9%
0.60	0.65	0.33	0.44	11.3%
0.50	0.65	0.33	0.53	13.6%
0.50	0.65	0.33	0.30	7.7%
0.50	0.70	0.35	0.41	10.6%
0.50	0.70	0.35	0.32	8.2%
0.50	0.65	0.33	0.48	12.4%
0.52	0.50	0.25	0.29	7.5%
0.50	0.45	0.23	0.06	1.5%
0.57	0.15	0.08	0.07	1.8%
0.50	0.15	0.08	0.05	1.4%
0.51	0.25	0.13	0.09	2.4%
0.52	0.35	0.26	0.09	2.4%
1.01	0.20	0.20	0.00	0.0%
1.00	0.20	0.20	0.00	0.0%
1.02		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%

TOTALS -----

11.76 0.7 4.28 3.86 100.0%
 (Max.)

Manning's n = 0.1026
 Hydraulic Radius= 0.363714451

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 0.4 mile upstream from mouth
 XS NUMBER: 1

WATER LINE COMPARISON TABLE

WATER LINE	MEAS AREA	COMP AREA	AREA ERROR
	4.28	4.07	-4.8%
7.13	4.28	7.35	71.7%
7.15	4.28	7.07	65.3%
7.17	4.28	6.80	58.9%
7.19	4.28	6.52	52.5%
7.21	4.28	6.25	46.2%
7.23	4.28	5.99	40.0%
7.25	4.28	5.72	33.8%
7.27	4.28	5.46	27.6%
7.29	4.28	5.20	21.6%
7.31	4.28	4.94	15.6%
7.33	4.28	4.69	9.6%
7.34	4.28	4.56	6.6%
7.35	4.28	4.44	3.7%
7.36	4.28	4.31	0.8%
7.37	4.28	4.19	-2.1%
7.38	4.28	4.07	-4.8%
7.39	4.28	3.96	-7.5%
7.40	4.28	3.84	-10.1%
7.41	4.28	3.73	-12.7%
7.42	4.28	3.62	-15.3%
7.43	4.28	3.51	-17.9%
7.45	4.28	3.29	-23.0%
7.47	4.28	3.08	-28.1%
7.49	4.28	2.86	-33.1%
7.51	4.28	2.65	-37.9%
7.53	4.28	2.46	-42.6%
7.55	4.28	2.27	-47.0%
7.57	4.28	2.10	-51.0%
7.59	4.28	1.94	-54.6%
7.61	4.28	1.79	-58.1%
7.63	4.28	1.65	-61.4%

WATERLINE AT ZERO
 AREA ERROR = 7.358

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 0.4 mile upstream from mouth
 XS NUMBER: 1

Constant Manning's n

GL = lowest Grassline elevation corrected for sag

STAGING TABLE

WL = Waterline corrected for variations in field measured water surface elevations and sag

	DIST TO WATER (FT)	TOP WIDTH (FT)	AVG. DEPTH (FT)	MAX. DEPTH (FT)	AREA (SQ FT)	WETTED PERIM. (FT)	PERCENT WET PERIM (%)	HYDR RADIUS (FT)	FLOW (CFS)	AVG. VELOCITY (FT/SEC)
GL	6.02	20.78	1.27	2.06	26.39	21.59	100.0%	1.22	53.52	2.03
	6.36	18.48	1.07	1.72	19.77	19.19	88.9%	1.03	35.75	1.81
	6.41	18.14	1.04	1.67	18.85	18.84	87.3%	1.00	33.44	1.77
	6.46	17.84	1.01	1.62	17.95	18.52	85.8%	0.97	31.18	1.74
	6.51	17.55	0.97	1.57	17.07	18.22	84.4%	0.94	28.98	1.70
	6.56	17.27	0.94	1.52	16.20	17.91	83.0%	0.90	26.86	1.66
	6.61	16.98	0.90	1.47	15.34	17.61	81.6%	0.87	24.82	1.62
	6.66	16.69	0.87	1.42	14.50	17.30	80.1%	0.84	22.85	1.58
	6.71	16.41	0.83	1.37	13.67	17.00	78.7%	0.80	20.97	1.53
	6.76	16.11	0.80	1.32	12.86	16.69	77.3%	0.77	19.17	1.49
	6.81	15.81	0.76	1.27	12.06	16.37	75.8%	0.74	17.45	1.45
	6.86	15.51	0.73	1.22	11.28	16.05	74.3%	0.70	15.81	1.40
	6.91	15.21	0.69	1.17	10.51	15.73	72.9%	0.67	14.24	1.36
	6.96	14.91	0.65	1.12	9.76	15.41	71.4%	0.63	12.76	1.31
	7.01	14.60	0.62	1.07	9.02	15.09	69.9%	0.60	11.35	1.26
	7.06	14.30	0.58	1.02	8.30	14.77	68.4%	0.56	10.01	1.21
	7.11	14.00	0.54	0.97	7.59	14.45	66.9%	0.53	8.76	1.15
	7.16	13.70	0.50	0.92	6.90	14.13	65.5%	0.49	7.58	1.10
	7.21	13.40	0.46	0.87	6.22	13.81	64.0%	0.45	6.48	1.04
	7.26	13.10	0.42	0.82	5.56	13.49	62.5%	0.41	5.45	0.98
	7.31	12.79	0.38	0.77	4.91	13.18	61.0%	0.37	4.51	0.92
WL	7.36	12.49	0.34	0.72	4.28	12.86	59.6%	0.33	3.64	0.85
	7.41	11.14	0.33	0.67	3.70	11.49	53.2%	0.32	3.09	0.83
	7.46	10.77	0.29	0.62	3.16	11.10	51.4%	0.28	2.42	0.77
	7.51	10.15	0.26	0.57	2.63	10.47	48.5%	0.25	1.85	0.71
	7.56	8.28	0.26	0.52	2.15	8.57	39.7%	0.25	1.52	0.71
	7.61	7.25	0.24	0.47	1.77	7.51	34.8%	0.24	1.20	0.68
	7.66	6.53	0.22	0.42	1.43	6.75	31.3%	0.21	0.90	0.63
	7.71	5.58	0.20	0.37	1.12	5.76	26.7%	0.19	0.67	0.60
	7.76	4.38	0.20	0.32	0.88	4.52	20.9%	0.19	0.52	0.59
	7.81	3.77	0.18	0.27	0.67	3.87	17.9%	0.17	0.37	0.55
	7.86	3.34	0.15	0.22	0.49	3.42	15.9%	0.14	0.24	0.49
	7.91	3.04	0.11	0.17	0.34	3.09	14.3%	0.11	0.14	0.40
	7.96	2.77	0.07	0.12	0.19	2.81	13.0%	0.07	0.06	0.30
	8.01	1.94	0.03	0.07	0.06	1.96	9.1%	0.03	0.01	0.18
	8.06	0.56	0.01	0.02	0.01	0.56	2.6%	0.01	0.00	0.09

Big Dominguez Creek
0.4 mile upstream from mouth
1

SUMMARY SHEET

MEASURED FLOW (Q_m)=	3.86 cfs
CALCULATED FLOW (Q_c)=	3.64 cfs
$(Q_m - Q_c) / Q_m * 100 =$	5.8 %
MEASURED WATERLINE (WL_m)=	7.38 ft
CALCULATED WATERLINE (WL_c)=	7.36 ft
$(WL_m - WL_c) / WL_m * 100 =$	0.2 %
MAX MEASURED DEPTH (D_m)=	0.70 ft
MAX CALCULATED DEPTH (D_c)=	0.72 ft
$(D_m - D_c) / D_m * 100 =$	-3.2 %
MEAN VELOCITY=	0.85 ft/sec
MANNING'S N=	0.103
SLOPE=	0.015 ft/ft
$.4 * Q_m =$	1.5 cfs
$2.5 * Q_m =$	9.7 cfs

RECOMMENDED INSTREAM FLOW:

0000000000000000

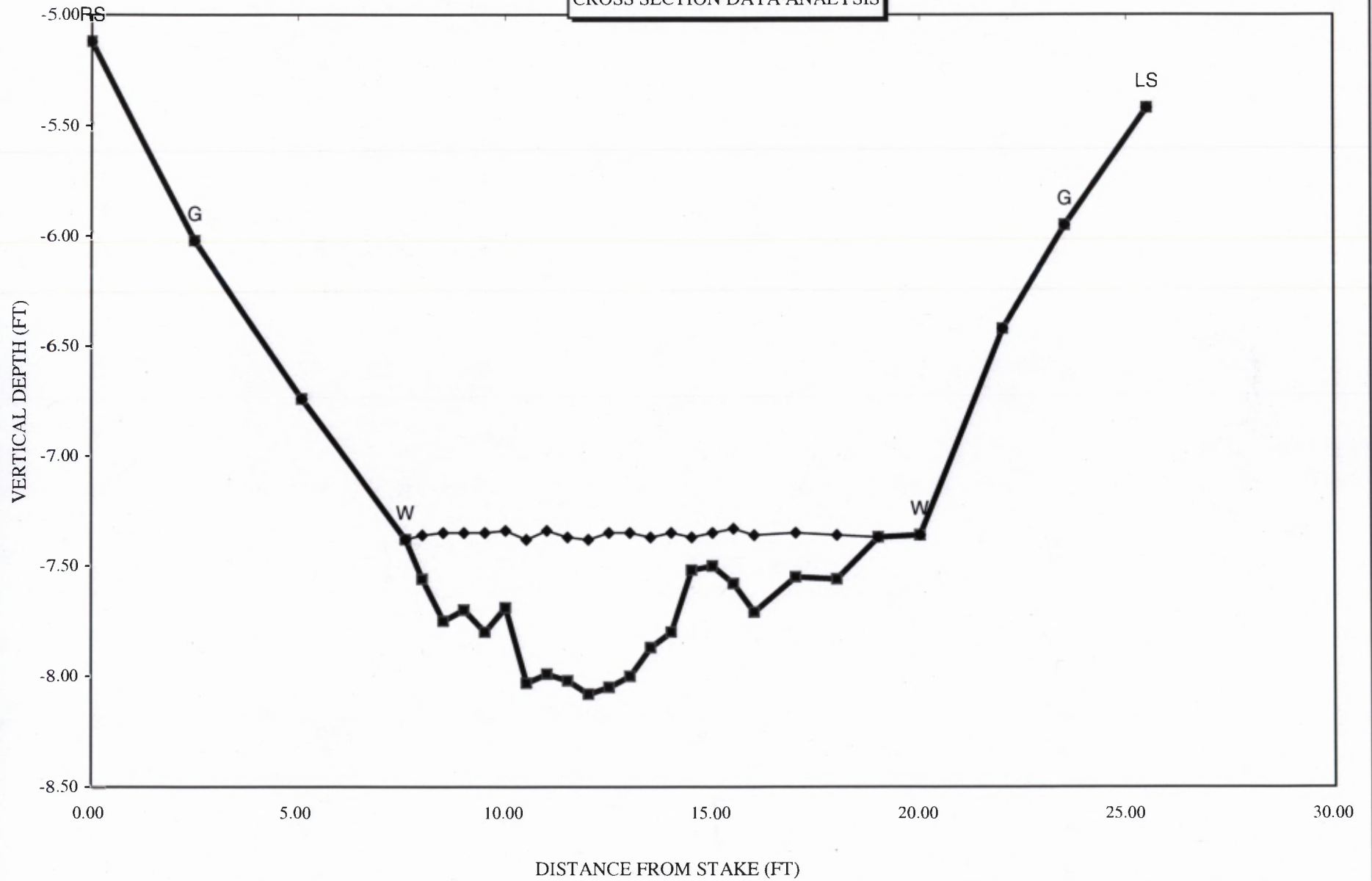
RATIONALE FOR RECOMMENDATION:

RECOMMENDATION BY: _____ AGENCY _____ DATE: _____

CWCB REVIEW BY: _____ DATE: _____

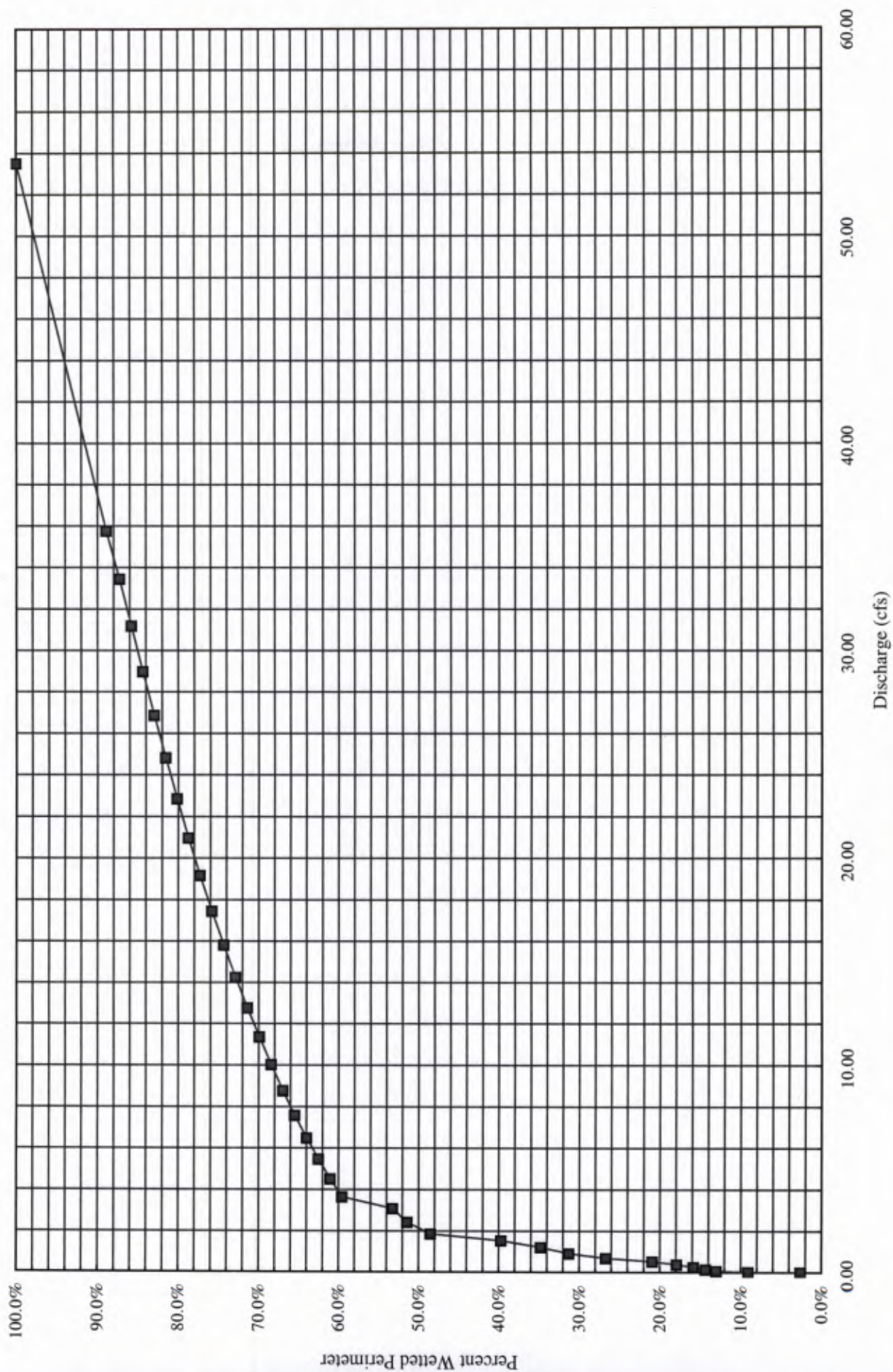
Big Dominguez Creek

CROSS SECTION DATA ANALYSIS



Channel Bottom Computed Water Line

Percent Wetted Perimeter vs. Discharge



COLORADO WATER CONSERVATION BOARD
INSTREAM FLOW / NATURAL LAKE LEVEL PROGRAM
STREAM CROSS-SECTION AND FLOW ANALYSIS

LOCATION INFORMATION

STREAM NAME: Big Dominguez Creek
XS LOCATION: 0.3 mile upstream from mouth
XS NUMBER: 2

DATE: 23-Feb-07
OBSERVERS: R. Smith, M. Choy

1/4 SEC: NE
SECTION: 19
TWP: 14S
RANGE: 98W
PM: Sixth

COUNTY: Mesa
WATERSHED: Gunnison
DIVISION: 4
DOW CODE: 39811

USGS MAP: Triangle Mesa 7.5'
USFS MAP: 0

SUPPLEMENTAL DATA

*** NOTE ***

Leave TAPE WT and TENSION
at defaults for data collected
with a survey level and rod

TAPE WT: 0.0106
TENSION: 99999

CHANNEL PROFILE DATA

SLOPE: 0.015

INPUT DATA CHECKED BY:DATE.....

ASSIGNED TO:DATE.....

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 0.3 mile upstream from mouth
 XS NUMBER: 2

DATA POINTS= 29

VALUES COMPUTED FROM RAW FIELD DATA

FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL
RS	0.00	3.29		
1 G	2.80	5.06		
	4.00	5.64		
W	5.00	6.04	0.00	0.00
	5.50	6.10	0.05	0.62
	6.00	6.11	0.05	0.37
	6.50	6.22	0.15	0.70
	7.00	6.20	0.15	0.23
	7.50	6.16	0.10	1.80
	8.00	6.43	0.30	1.79
	8.50	6.54	0.40	1.67
	9.00	6.54	0.40	1.96
	9.50	6.62	0.50	1.77
	10.00	6.57	0.45	1.14
	10.50	6.55	0.40	1.95
	11.00	6.52	0.40	1.98
	11.50	6.42	0.40	0.43
	12.00	6.50	0.45	1.14
	12.50	6.36	0.30	0.85
	13.00	6.42	0.35	0.56
	13.50	6.50	0.40	1.03
	14.00	6.50	0.40	0.59
	14.50	6.40	0.35	0.20
	15.00	6.29	0.25	0.00
	15.50	6.13	0.10	0.00
W	16.10	6.04	0.00	0.00
	17.00	5.04		
1 G	17.20	4.89		
LS	21.30	3.42		

WETTED PERIM.	WATER DEPTH	AREA (Am)	Q (Qm)	% Q CELL
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.50	0.05	0.03	0.02	0.4%
0.50	0.05	0.03	0.01	0.3%
0.51	0.15	0.08	0.05	1.5%
0.50	0.15	0.08	0.02	0.5%
0.50	0.10	0.05	0.09	2.5%
0.57	0.30	0.15	0.27	7.5%
0.51	0.40	0.20	0.33	9.3%
0.50	0.40	0.20	0.39	10.9%
0.51	0.50	0.25	0.44	12.3%
0.50	0.45	0.23	0.26	7.1%
0.50	0.40	0.20	0.39	10.9%
0.50	0.40	0.20	0.40	11.0%
0.51	0.40	0.20	0.09	2.4%
0.51	0.45	0.23	0.26	7.1%
0.52	0.30	0.15	0.13	3.6%
0.50	0.35	0.18	0.10	2.7%
0.51	0.40	0.20	0.21	5.7%
0.50	0.40	0.20	0.12	3.3%
0.51	0.35	0.18	0.04	1.0%
0.51	0.25	0.13	0.00	0.0%
0.52	0.10	0.06	0.00	0.0%
0.61		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%

TOTALS -----

11.31 0.5 3.18 3.59 100.0%
 (Max.)

Manning's n = 0.0692
 Hydraulic Radius= 0.28124221

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 0.3 mile upstream from mouth
 XS NUMBER: 2

WATER LINE COMPARISON TABLE

WATER LINE	MEAS AREA	COMP AREA	AREA ERROR
	3.18	3.62	14.0%
5.79	3.18	6.51	104.6%
5.81	3.18	6.27	97.1%
5.83	3.18	6.03	89.6%
5.85	3.18	5.79	82.2%
5.87	3.18	5.56	74.9%
5.89	3.18	5.33	67.5%
5.91	3.18	5.10	60.3%
5.93	3.18	4.87	53.0%
5.95	3.18	4.64	45.8%
5.97	3.18	4.41	38.7%
5.99	3.18	4.18	31.6%
6.00	3.18	4.07	28.0%
6.01	3.18	3.96	24.5%
6.02	3.18	3.85	21.0%
6.03	3.18	3.74	17.5%
6.04	3.18	3.62	14.0%
6.05	3.18	3.51	10.5%
6.06	3.18	3.41	7.1%
6.07	3.18	3.30	3.7%
6.08	3.18	3.19	0.4%
6.09	3.18	3.09	-2.9%
6.11	3.18	2.89	-9.2%
6.13	3.18	2.70	-15.2%
6.15	3.18	2.51	-21.1%
6.17	3.18	2.33	-26.8%
6.19	3.18	2.15	-32.3%
6.21	3.18	1.99	-37.5%
6.23	3.18	1.83	-42.4%
6.25	3.18	1.68	-47.1%
6.27	3.18	1.53	-51.8%
6.29	3.18	1.39	-56.3%

WATERLINE AT ZERO

AREA ERROR = 6.081

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 0.3 mile upstream from mouth
 XS NUMBER: 2

Constant Manning's n

GL = lowest Grassline elevation corrected for sag

STAGING TABLE

WL = Waterline corrected for variations in field measured water surface elevations and sag

	DIST TO WATER (FT)	TOP WIDTH (FT)	AVG. DEPTH (FT)	MAX. DEPTH (FT)	AREA (SQ FT)	WETTED PERIM. (FT)	PERCENT WET PERIM (%)	HYDR RADIUS (FT)	FLOW (CFS)	AVG. VELOCITY (FT/SEC)
GL	5.06	14.18	1.13	1.56	16.06	15.04	100.0%	1.07	44.16	2.75
	5.08	14.12	1.12	1.54	15.76	14.96	99.5%	1.05	42.94	2.72
	5.13	13.97	1.08	1.49	15.06	14.78	98.3%	1.02	40.13	2.66
	5.18	13.82	1.04	1.44	14.37	14.59	97.1%	0.98	37.40	2.60
	5.23	13.67	1.00	1.39	13.68	14.41	95.9%	0.95	34.75	2.54
	5.28	13.53	0.96	1.34	13.00	14.23	94.6%	0.91	32.19	2.48
	5.33	13.38	0.92	1.29	12.33	14.05	93.4%	0.88	29.72	2.41
	5.38	13.23	0.88	1.24	11.66	13.87	92.2%	0.84	27.33	2.34
	5.43	13.08	0.84	1.19	11.00	13.68	91.0%	0.80	25.03	2.27
	5.48	12.93	0.80	1.14	10.35	13.50	89.8%	0.77	22.82	2.20
	5.53	12.78	0.76	1.09	9.71	13.32	88.6%	0.73	20.69	2.13
	5.58	12.63	0.72	1.04	9.07	13.14	87.4%	0.69	18.65	2.06
	5.63	12.49	0.68	0.99	8.45	12.95	86.2%	0.65	16.71	1.98
	5.68	12.32	0.64	0.94	7.83	12.76	84.8%	0.61	14.87	1.90
	5.73	12.15	0.59	0.89	7.21	12.55	83.5%	0.57	13.12	1.82
	5.78	11.98	0.55	0.84	6.61	12.35	82.2%	0.54	11.46	1.73
	5.83	11.81	0.51	0.79	6.02	12.15	80.8%	0.50	9.91	1.65
	5.88	11.64	0.47	0.74	5.43	11.95	79.5%	0.45	8.44	1.56
	5.93	11.47	0.42	0.69	4.85	11.75	78.1%	0.41	7.08	1.46
	5.98	11.30	0.38	0.64	4.28	11.54	76.8%	0.37	5.82	1.36
	6.03	11.13	0.33	0.59	3.72	11.34	75.4%	0.33	4.66	1.25
WL	6.08	10.48	0.30	0.54	3.18	10.68	71.1%	0.30	3.73	1.17
	6.13	9.40	0.29	0.49	2.68	9.59	63.8%	0.28	3.02	1.13
	6.18	8.71	0.26	0.44	2.23	8.89	59.1%	0.25	2.33	1.05
	6.23	7.55	0.24	0.39	1.82	7.70	51.2%	0.24	1.84	1.01
	6.28	7.30	0.20	0.34	1.45	7.43	49.4%	0.20	1.29	0.89
	6.33	7.00	0.16	0.29	1.09	7.11	47.3%	0.15	0.83	0.76
	6.38	6.42	0.12	0.24	0.76	6.51	43.3%	0.12	0.47	0.63
	6.43	5.39	0.08	0.19	0.46	5.45	36.2%	0.08	0.23	0.50
	6.48	3.86	0.06	0.14	0.23	3.89	25.8%	0.06	0.09	0.40
	6.53	2.35	0.03	0.09	0.08	2.36	15.7%	0.03	0.02	0.27
	6.58	0.63	0.02	0.04	0.01	0.64	4.2%	0.02	0.00	0.19

STREAM NAME: Big Dominguez Creek
XS LOCATION: 0.3 mile upstream from mouth
XS NUMBER: 2

SUMMARY SHEET

MEASURED FLOW (Qm)=	3.59 cfs
CALCULATED FLOW (Qc)=	3.73 cfs
(Qm-Qc)/Qm * 100 =	-3.8 %

MEASURED WATERLINE (W _{Lm})=	6.04 ft
CALCULATED WATERLINE (W _{Lc})=	6.08 ft
(W _{Lm} -W _{Lc})/W _{Lm} * 100 =	-0.7 %

MAX MEASURED DEPTH (Dm)=	0.50 ft
MAX CALCULATED DEPTH (Dc)=	0.54 ft
(Dm-Dc)/Dm * 100	-7.8 %

MEAN VELOCITY=	1.17 ft/sec
MANNING'S N=	0.069
SLOPE=	0.015 ft/ft

$$\begin{aligned} .4 * Q_m &= 1.4 \text{ cfs} \\ 2.5 * Q_m &= 9.0 \text{ cfs} \end{aligned}$$
RECOMMENDED INSTREAM FLOW:
=====

FLOW (CFS)	PERIOD
=====	=====

RATIONALE FOR RECOMMENDATION:
=====

[illegible]

RECOMMENDATION BY: AGENCY..... DATE:.....

CWCB REVIEW BY: DATE:



COLORADO WATER
CONSERVATION BOARD

FIELD DATA
FOR
INSTREAM FLOW DETERMINATIONS



LOCATION INFORMATION

STREAM NAME: Big Dominguez Creek		CROSS-SECTION NO.: 1
CROSS-SECTION LOCATION: At campground bridge		
12S 0712960 4291274 elev. 7100'		
DATE: 6/16/05	OBSERVERS: R. Smith D. Murphy; D. Smith	
LEGAL DESCRIPTION:	1/4 SECTION: SE	SECTION: 15
	TOWNSHIP: 15 N	RANGE: 100 E
COUNTY: MESA	WATERSHED: Lower Gunnison	WATER DIVISION: 4
		DOW WATER CODE: 398111
MAP(S):	USGS: Triangle Mesa 7.5'	
	USFS:	

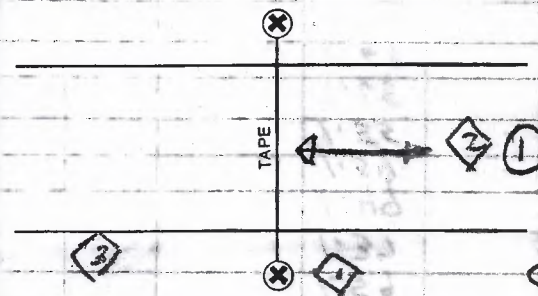
SUPPLEMENTAL DATA

SAG TAPE SECTION SAME AS DISCHARGE SECTION: ☒ YES ☐ NO	METER TYPE: MARSH McBirney			
METER NUMBER:	DATE RATED:	CALIB/SPIN: sec	TAPE WEIGHT: surveyed lbs/foot	TAPE TENSION: surveyed lbs
CHANNEL BED MATERIAL SIZE RANGE: gravel to 1-foot boulders		PHOTOGRAPHS TAKEN: ☒ YES ☐ NO	NUMBER OF PHOTOGRAPHS: 3	

CHANNEL PROFILE DATA

STATION	DISTANCE FROM TAPE (ft)	ROD READING (ft)
⊗ Tape @ Stake LB	0.0	surveyed
⊗ Tape @ Stake RB	0.0	surveyed
① WS @ Tape LB/RB	0.0	10.1/10.01
② WS Upstream	10'	9.99
③ WS Downstream	20	10.36
SLOPE	0.37/30 = 0.0123	

SKETCH



LEGEND:

Stake ⊗

Station ①

Photo ①

Direction of Flow →

AQUATIC SAMPLING SUMMARY

STREAM ELECTROFISHED: YES ☒ NO ☐	DISTANCE ELECTROFISHED: _____ ft	FISH CAUGHT: YES ☒ NO ☐	WATER CHEMISTRY SAMPLED: YES ☒ NO ☐														
LENGTH - FREQUENCY DISTRIBUTION BY ONE-INCH SIZE GROUPS (1.0-1.9, 2.0-2.9, ETC.)																	
SPECIES (FILL IN)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	>15	TOTAL
Rainbow caught by line					1												
Also see previous survey																	
AQUATIC INSECTS IN STREAM SECTION BY COMMON OR SCIENTIFIC ORDER NAME:																	
Trichoptera, ephemeroptera, chironomid																	

COMMENTS

IDS	270	us/cm
pH	8.7	SU
Temp	11 °C	

DISCHARGE/CROSS SECTION NOTES

STREAM NAME:

Big Dominguez Creek

CROSS-SECTION NO.:

1

DATE:

6/16/05

SHEET 1 OF 1

BEGINNING OF MEASUREMENT

EDGE OF WATER LOOKING DOWNSTREAM:
(0.0 AT STAKE)

LEFT / RIGHT

Gage Reading:

0.4 ft

TIME:

9:20 AM

Features	Stake (S) Grassline (G) Waterline (W) Rock (R)	Distance From Initial Point (ft)	Width (ft)	Total Vertical Depth From Tape/Inst (ft)	Water Depth (ft)	Depth of Observation (ft)	Revolutions	Time (sec)	Velocity (ft/sec)		Area (ft ²)	Discharge (cfs)
									At Point	Mean in Vertical		
	LS	0.0		8.29								
	G	1.1		9.05								
		2.2		9.61								
	W	3.5		10.01								
		4.0		10.40	0.4					0.68		
		5.0		10.41	0.4					0.33		
		6.0		10.63	0.6					0.70		
		7.0		10.49	0.5					0.53		
		8.0		10.19	0.2					0.49		
		9.0		10.25	0.25					0.98		
		10.0		10.54	0.5					1.64		
		11.0		10.66	0.65					1.59		
		12.0		10.46	0.45					1.37		
		12.5		10.75	0.65					1.49		
		13.0		10.80	0.70					1.54		
		13.5		10.68	0.60					1.55		
		14.0		10.53	0.45					1.68		
		15.0		10.40	0.30					1.69		
		16.0		10.52	0.45					1.74		
		17.0		10.14	0.05					1.29		
	W	18.0		10.10								
	G	19.7		9.19								
	S	22.0		8.55								
TOTALS:												

End of Measurement

Time: 9:48

Gage Reading:

0.4 ft

CALCULATIONS PERFORMED BY:

D. M. V. P. H.

CALCULATIONS CHECKED BY:

Data Input & Proofing

STREAM NAME: Big Dominguez Creek
 XS LOCATION: At Campground Bridge
 XS NUMBER: 1
 DATE: 6/16/05
 OBSERVERS: R. Smith, D. Smith, D. Murphy

1/4 SEC: SE
 SECTION: 15
 TWP: 15S
 RANGE: 100W
 PM: Sixth

COUNTY: Mesa
 WATERSHED: Lower Gunnison
 DIVISION: 4
 DOW CODE: 398111
 USGS MAP: Triangle Mesa 7.5'
 USFS MAP:

TAPE WT: 0.0106 lbs / ft
 TENSION: 99999 lbs

SLOPE: 0.0123 ft / ft

GL=1	FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL	A	Q	Tape to Water
Total Data Points = 22								
1	LS	0.00	8.29			0.00	0.00	0.00
	G	1.10	9.05			0.00	0.00	0.00
		2.20	9.61			0.00	0.00	0.00
	W	3.50	10.01			0.00	0.00	0.00
		4.00	10.40	0.40	0.68	0.30	0.20	10.00
		5.00	10.41	0.40	0.33	0.40	0.13	10.01
		6.00	10.63	0.60	0.70	0.60	0.42	10.03
		7.00	10.49	0.50	0.53	0.50	0.27	9.99
		8.00	10.19	0.20	0.49	0.20	0.10	9.99
		9.00	10.25	0.25	0.98	0.25	0.25	10.00
		10.00	10.54	0.50	1.64	0.50	0.82	10.04
		11.00	10.66	0.65	1.59	0.65	1.03	10.01
		12.00	10.46	0.45	1.37	0.34	0.46	10.01
		12.50	10.75	0.65	1.49	0.33	0.48	10.10
		13.00	10.80	0.70	1.54	0.35	0.54	10.10
		13.50	10.68	0.60	1.55	0.30	0.47	10.08
		14.00	10.53	0.45	1.68	0.34	0.57	10.08
1		15.00	10.40	0.30	1.69	0.30	0.51	10.10
		16.00	10.52	0.45	1.74	0.45	0.78	10.07
	W	17.00	10.14	0.05	1.29	0.05	0.06	10.09
	G	18.00	10.10			0.00	0.00	0.00
	RS	19.70	9.19			0.00	0.00	0.00
		22.00	8.55					

CHECKED BY: DATE

ASSIGNED TO: DATE

Totals	5.85	7.09
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COLORADO WATER CONSERVATION BOARD
INSTREAM FLOW / NATURAL LAKE LEVEL PROGRAM
STREAM CROSS-SECTION AND FLOW ANALYSIS

LOCATION INFORMATION

STREAM NAME: Big Dominguez Creek
XS LOCATION: At Campground Bridge
XS NUMBER: 1

DATE: 16-Jun-05
OBSERVERS: R.Smith, D. Smith, D. Murphy

1/4 SEC: SE
SECTION: 15
TWP: 15S
RANGE: 100W
PM: Sixth

COUNTY: Mesa
WATERSHED: Lower Gunnison
DIVISION: 4
DOW CODE: 398111

USGS MAP: Triangle Mesa 7.5'
USFS MAP: 0

SUPPLEMENTAL DATA

*** NOTE ***

Leave TAPE WT and TENSION
at defaults for data collected
with a survey level and rod

TAPE WT: 0.0106
TENSION: 99999

CHANNEL PROFILE DATA

SLOPE: 0.0123

INPUT DATA CHECKED BY:DATE.....

ASSIGNED TO:DATE.....

STREAM NAME: Big Dominguez Creek
 XS LOCATION: At Campground Bridge
 XS NUMBER: 1

DATA POINTS= 22

VALUES COMPUTED FROM RAW FIELD DATA

FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL
LS	0.00	8.29		
1 G	1.10	9.05		
	2.20	9.61		
W	3.50	10.01		
	4.00	10.40	0.40	0.68
	5.00	10.41	0.40	0.33
	6.00	10.63	0.60	0.70
	7.00	10.49	0.50	0.53
	8.00	10.19	0.20	0.49
	9.00	10.25	0.25	0.98
	10.00	10.54	0.50	1.64
	11.00	10.66	0.65	1.59
	12.00	10.46	0.45	1.37
	12.50	10.75	0.65	1.49
	13.00	10.80	0.70	1.54
	13.50	10.68	0.60	1.55
	14.00	10.53	0.45	1.68
	15.00	10.40	0.30	1.69
	16.00	10.52	0.45	1.74
	17.00	10.14	0.05	1.29
W	18.00	10.10		
1 G	19.70	9.19		

WETTED PERIM.	WATER DEPTH	AREA (Am)	Q (Qm)	% Q CELL
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%
0.63	0.40	0.30	0.20	2.9%
1.00	0.40	0.40	0.13	1.9%
1.02	0.60	0.60	0.42	5.9%
1.01	0.50	0.50	0.27	3.7%
1.04	0.20	0.20	0.10	1.4%
1.00	0.25	0.25	0.25	3.5%
1.04	0.50	0.50	0.82	11.6%
1.01	0.65	0.65	1.03	14.6%
1.02	0.45	0.34	0.46	6.5%
0.58	0.65	0.33	0.48	6.8%
0.50	0.70	0.35	0.54	7.6%
0.51	0.60	0.30	0.47	6.6%
0.52	0.45	0.34	0.57	8.0%
1.01	0.30	0.30	0.51	7.2%
1.01	0.45	0.45	0.78	11.0%
1.07	0.05	0.05	0.06	0.9%
1.00		0.00	0.00	0.0%
0.00		0.00	0.00	0.0%

TOTALS -----

14.98 0.7 5.85 7.09 100.0%
 (Max.)

Manning's n = 0.0726
 Hydraulic Radius= 0.390397823

STREAM NAME: Big Dominguez Creek
 XS LOCATION: At Campground Bridge
 XS NUMBER: 1

WATER LINE COMPARISON TABLE

WATER LINE	MEAS AREA	COMP AREA	AREA ERROR
	5.85	5.65	-3.5%
9.81	5.85	9.42	61.0%
9.83	5.85	9.10	55.6%
9.85	5.85	8.79	50.3%
9.87	5.85	8.48	45.0%
9.89	5.85	8.18	39.8%
9.91	5.85	7.87	34.5%
9.93	5.85	7.57	29.4%
9.95	5.85	7.27	24.2%
9.97	5.85	6.97	19.1%
9.99	5.85	6.67	14.0%
10.01	5.85	6.38	9.0%
10.02	5.85	6.23	6.5%
10.03	5.85	6.08	4.0%
10.04	5.85	5.94	1.5%
10.05	5.85	5.79	-1.0%
10.06	5.85	5.65	-3.5%
10.07	5.85	5.50	-6.0%
10.08	5.85	5.36	-8.4%
10.09	5.85	5.21	-10.9%
10.10	5.85	5.07	-13.4%
10.11	5.85	4.92	-15.8%
10.13	5.85	4.64	-20.6%
10.15	5.85	4.37	-25.2%
10.17	5.85	4.11	-29.8%
10.19	5.85	3.84	-34.3%
10.21	5.85	3.58	-38.7%
10.23	5.85	3.33	-43.0%
10.25	5.85	3.09	-47.1%
10.27	5.85	2.86	-51.1%
10.29	5.85	2.63	-55.0%
10.31	5.85	2.41	-58.9%

WATERLINE AT ZERO
 AREA ERROR = 10.041

STREAM NAME: Big Dominguez Creek
 XS LOCATION: At Campground Bridge
 XS NUMBER: 1

Constant Manning's n

GL = lowest Grassline elevation corrected for sag

STAGING TABLE

WL = Waterline corrected for variations in field measured water surface elevations and sag

	DIST TO WATER (FT)	TOP WIDTH (FT)	AVG. DEPTH (FT)	MAX. DEPTH (FT)	AREA (SQ FT)	WETTED PERIM. (FT)	PERCENT WET PERIM (%)	HYDR RADIUS (FT)	FLOW (CFS)	AVG. VELOCITY (FT/SEC)
GL	9.19	18.33	1.09	1.61	19.94	19.20	100.0%	1.04	46.39	2.33
	9.19	18.32	1.09	1.61	19.92	19.19	100.0%	1.04	46.33	2.33
	9.24	18.13	1.05	1.56	19.01	18.98	98.9%	1.00	43.17	2.27
	9.29	17.94	1.01	1.51	18.11	18.76	97.7%	0.97	40.12	2.22
	9.34	17.75	0.97	1.46	17.22	18.55	96.6%	0.93	37.17	2.16
	9.39	17.55	0.93	1.41	16.33	18.33	95.5%	0.89	34.31	2.10
	9.44	17.36	0.89	1.36	15.46	18.11	94.3%	0.85	31.56	2.04
	9.49	17.17	0.85	1.31	14.60	17.90	93.2%	0.82	28.91	1.98
	9.54	16.98	0.81	1.26	13.74	17.68	92.1%	0.78	26.36	1.92
	9.59	16.79	0.77	1.21	12.90	17.47	91.0%	0.74	23.91	1.85
	9.64	16.56	0.73	1.16	12.06	17.21	89.7%	0.70	21.60	1.79
	9.69	16.30	0.69	1.11	11.24	16.94	88.2%	0.66	19.41	1.73
	9.74	16.05	0.65	1.06	10.43	16.66	86.8%	0.63	17.33	1.66
	9.79	15.79	0.61	1.01	9.64	16.38	85.3%	0.59	15.35	1.59
	9.84	15.53	0.57	0.96	8.86	16.11	83.9%	0.55	13.48	1.52
	9.89	15.28	0.53	0.91	8.08	15.83	82.5%	0.51	11.72	1.45
	9.94	15.02	0.49	0.86	7.33	15.56	81.0%	0.47	10.06	1.37
	9.99	14.77	0.45	0.81	6.58	15.28	79.6%	0.43	8.52	1.29
WL	10.04	14.57	0.40	0.76	5.85	15.06	78.4%	0.39	7.07	1.21
	10.09	14.41	0.36	0.71	5.13	14.87	77.5%	0.34	5.72	1.12
	10.14	13.33	0.33	0.66	4.43	13.77	71.7%	0.32	4.72	1.06
	10.19	13.11	0.29	0.61	3.77	13.53	70.5%	0.28	3.64	0.97
	10.24	11.92	0.26	0.56	3.14	12.30	64.0%	0.26	2.87	0.91
	10.29	11.26	0.23	0.51	2.56	11.60	60.4%	0.22	2.13	0.83
	10.34	10.73	0.19	0.46	2.01	11.03	57.4%	0.18	1.47	0.73
	10.39	10.20	0.15	0.41	1.49	10.45	54.4%	0.14	0.92	0.62
	10.44	7.92	0.13	0.36	1.04	8.14	42.4%	0.13	0.60	0.58
	10.49	6.20	0.11	0.31	0.69	6.38	33.2%	0.11	0.35	0.51
	10.54	4.45	0.10	0.26	0.43	4.58	23.9%	0.09	0.20	0.47
	10.59	2.95	0.08	0.21	0.24	3.04	15.8%	0.08	0.10	0.42
	10.64	1.57	0.08	0.16	0.13	1.63	8.5%	0.08	0.06	0.42
	10.69	1.06	0.07	0.11	0.07	1.09	5.7%	0.06	0.03	0.36
	10.74	0.76	0.03	0.06	0.02	0.77	4.0%	0.03	0.01	0.23
	10.79	0.13	0.00	0.01	0.00	0.13	0.7%	0.00	0.00	0.06

Big Dominguez Creek
At Campground Bridge
1

SUMMARY SHEET

MEASURED FLOW (Qm)=	7.09 cfs
CALCULATED FLOW (Qc)=	7.07 cfs
(Qm-Qc)/Qm * 100 =	0.3 %
MEASURED WATERLINE (WLm)=	10.06 ft
CALCULATED WATERLINE (WLc)=	10.04 ft
(WLm-WLc)/WLm * 100 =	0.1 %
MAX MEASURED DEPTH (Dm)=	0.70 ft
MAX CALCULATED DEPTH (Dc)=	0.76 ft
(Dm-Dc)/Dm * 100	-8.4 %
MEAN VELOCITY=	1.21 ft/sec
MANNING'S N=	0.073
SLOPE=	0.0123 ft/ft
.4 * Qm =	2.8 cfs
2.5 * Qm=	17.7 cfs

RECOMMENDED INSTREAM FLOW:

=====

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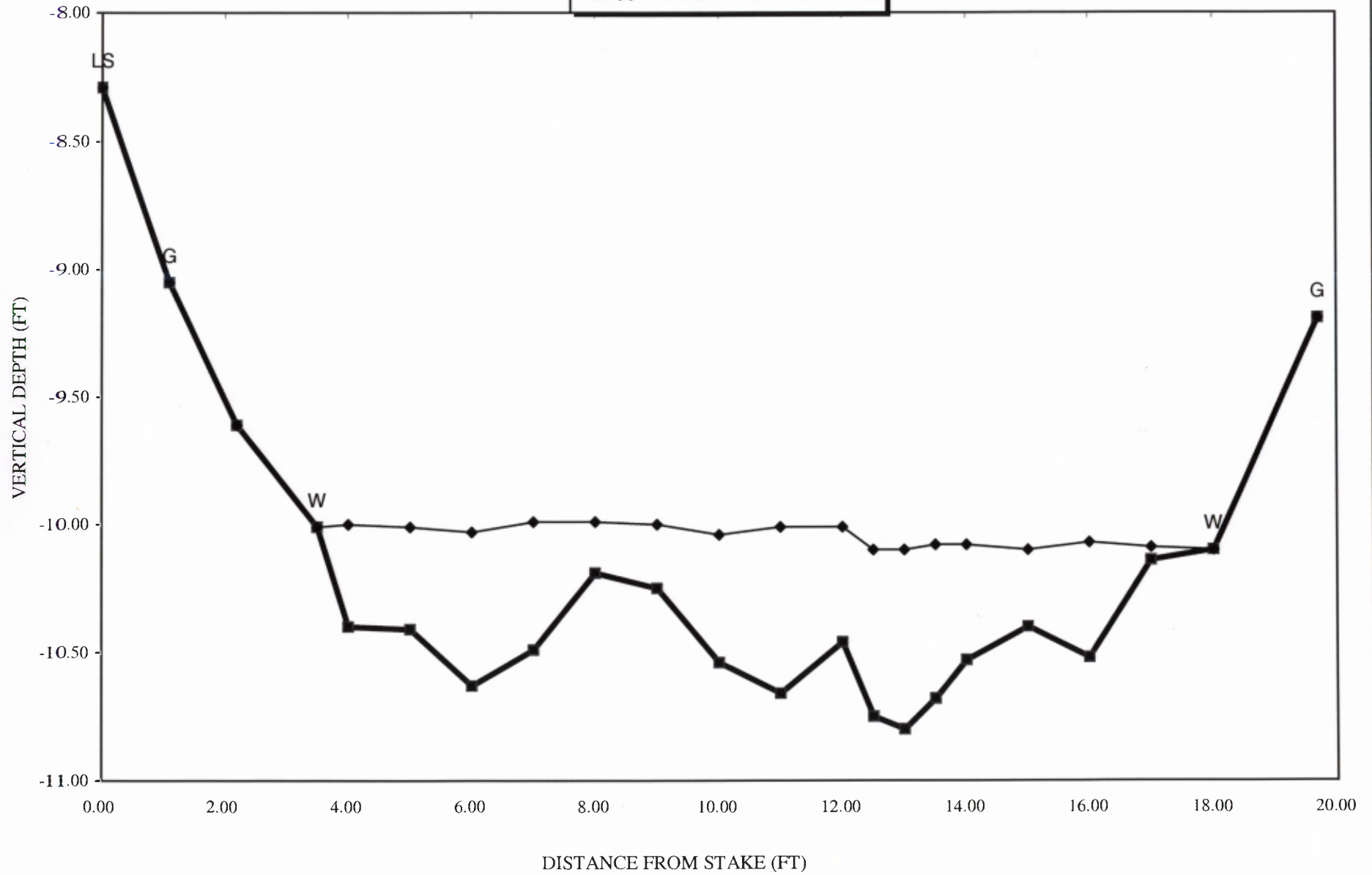
RATIONALE FOR RECOMMENDATION:

RECOMMENDATION BY: _____ AGENCY _____ DATE: _____

CVCB REVIEW BY: _____ DATE: _____

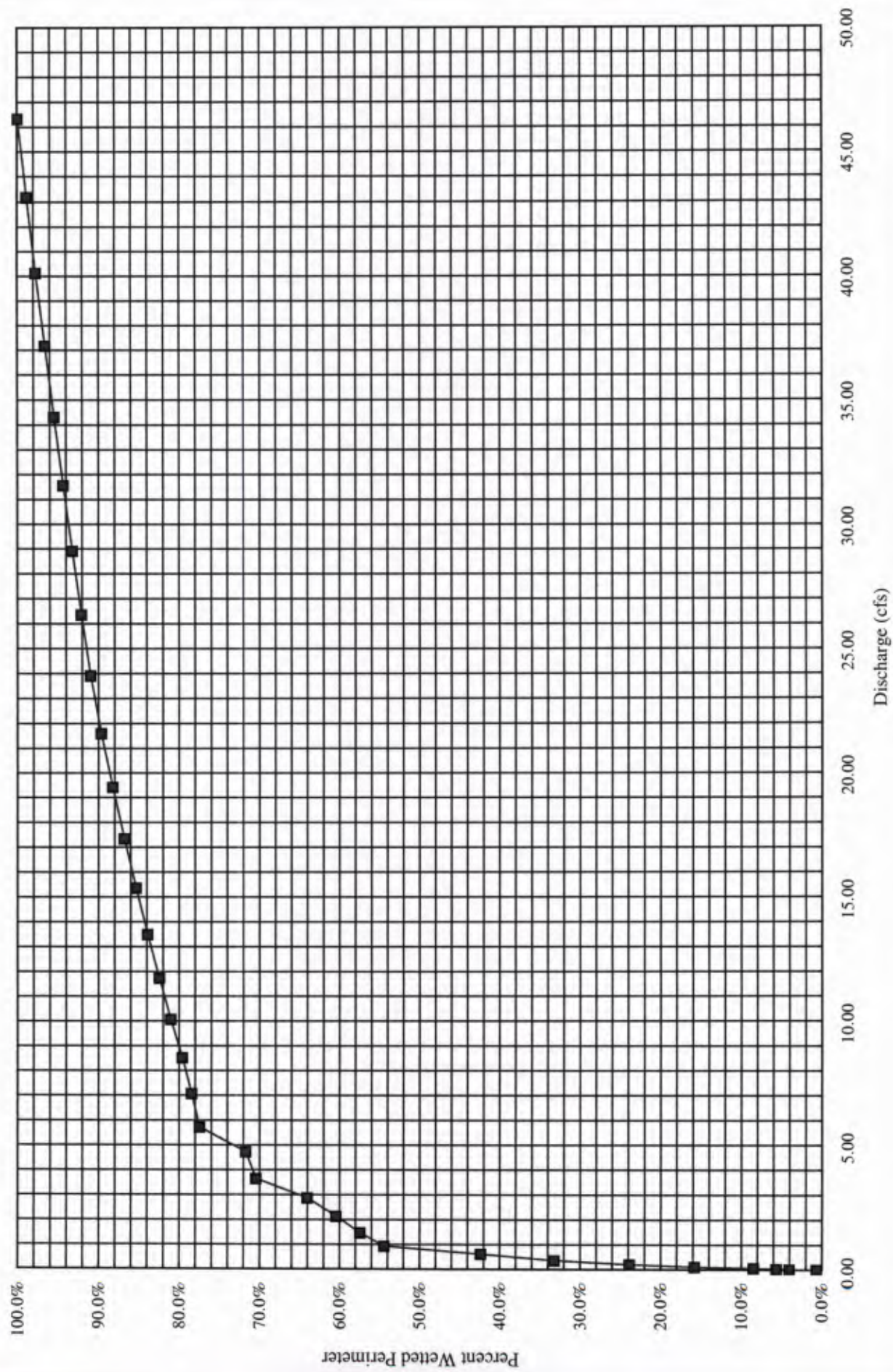
Big Dominguez Creek

CROSS SECTION DATA ANALYSIS



Channel Bottom Computed Water Line

Percent Wetted Perimeter vs. Discharge





FIELD DATA FOR INSTREAM FLOW DETERMINATIONS



COLORADO WATER
CONSERVATION BOARD

LOCATION INFORMATION

STREAM NAME: <u>Big Dominguez Creek</u>		CROSS-SECTION NO.: <u>1</u>
CROSS-SECTION LOCATION: <u>400 ft. upstream from Tabeguache Trail crossing</u>		
DATE: <u>6-18-03</u>	OBSERVERS: <u>R. Smith, D. Murphy</u>	
LEGAL DESCRIPTION:	1/4 SECTION: <u>SE</u>	SECTION: <u>15</u>
TOWNSHIP: <u>15 N 5</u>	RANGE: <u>100 E 10</u>	PM: <u>Sixth</u>
COUNTY: <u>Mesa</u>	WATERSHED: <u>Gunnison</u>	WATER DIVISION: <u>4</u>
DOW WATER CODE: <u>39811</u>		
MAP(S):	USGS: <u>Triangle Mesa</u>	UTM: <u>12 S 0712886</u>
USFS:	<u>4291120</u>	Elevation: <u>7100</u>

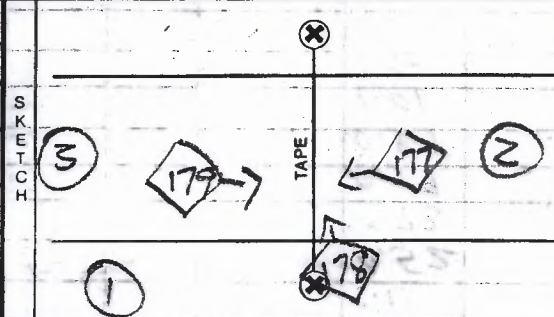
SUPPLEMENTAL DATA

SAG TAPE SECTION SAME AS DISCHARGE SECTION: <u>(YES)</u>	METER TYPE: <u>Marsh-McBirney</u>
METER NUMBER:	DATE RATED:
CALIB/SPIN:	sec
TAPE WEIGHT:	lbs/foot
TAPE TENSION:	lbs
CHANNEL BED MATERIAL SIZE RANGE: <u>sand to 6" cobbles</u>	PHOTOGRAPHS TAKEN: <u>(YES)</u>
NUMBER OF PHOTOGRAPHS: <u>3</u>	

CHANNEL PROFILE DATA

STATION	DISTANCE FROM TAPE (ft)	ROD READING (ft)
(X) Tape @ Stake LB	0.0	<u>surveyed</u>
(X) Tape @ Stake RB	0.0	<u>surveyed</u>
(1) WS @ Tape LB/RB	0.0	<u>5.65/5.65</u>
(2) WS Upstream	5.0	<u>5.55</u>
(3) WS Downstream	10.0	<u>5.85</u>
SLOPE	<u>0.30/15.0' = 0.02</u>	

SKETCH



LEGEND:
Stake (X)
Station (1)
Photo (1)
Direction of Flow (arrow)

AQUATIC SAMPLING SUMMARY

STREAM ELECTROFISHED: <u>(YES)</u>	DISTANCE ELECTROFISHED: _____ ft	FISH CAUGHT: <u>(YES)</u>	WATER CHEMISTRY SAMPLED: <u>(YES)</u>														
LENGTH - FREQUENCY DISTRIBUTION BY ONE-INCH SIZE GROUPS (1.0-1.9, 2.0-2.9, ETC.)																	
SPECIES (FILL IN)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	>15	TOTAL
<u>see attached survey</u>																	
AQUATIC INSECTS IN STREAM SECTION BY COMMON OR SCIENTIFIC ORDER NAME:																	
<u>trichoptera, ephemeroptera, chironomid</u>																	

COMMENTS

<u>Ph=8.7 TDS=230 Stream Temp: 6°C</u>

DISCHARGE/CROSS SECTION NOTES

STREAM NAME: Big Dominguez Creek

CROSS-SECTION NO.: 1

DATE: 6-18-03

SHEET 1 OF 1

BEGINNING OF MEASUREMENT

EDGE OF WATER LOOKING DOWNSTREAM:
(0.0 AT STAKE)

LEFT / RIGHT

Gage Reading: .2 ft

TIME: 9:55

Features	Stake (S) Grassline (G) Waterline (W) Rock (R)	Distance From Initial Point (ft)	Width (ft)	Total Vertical Depth From Tape/Inst (ft)	Water Depth (ft)	Depth of Observation (ft)	Revolutions	Time (sec)	Velocity (ft/sec)		Area (ft ²)	Discharge (cfs)
									At Point	Mean in Vertical		
	S	0.0		4.18								
	G	2.0		4.75								
	W	3.9		5.65	∅					∅		
		4.0		5.75	0.1					0.35		
		4.25		5.75	0.1					0.49		
		4.50		5.85	0.2					0.38		
		4.75		5.83	0.2					1.30		
		5.00		5.83	0.2					1.78		
		5.25		5.83	0.2					1.82		
		5.50		5.80	0.15					1.27		
		5.75		5.81	0.15					1.47		
		6.00		5.82	0.15					1.11		
		6.25		5.74	0.10					0.52		
		6.50		5.75	0.10					0.73		
		6.75		5.78	0.15					0.49		
		7.00		5.83	0.20					0.89		
		7.25		5.84	0.20					1.01		
		7.50		5.81	0.15					1.05		
		7.75		5.82	0.15					0.90		
		8.00		5.81	0.15					0.32		
		8.25		5.77	0.10					0.19		
		8.50		5.74	0.10					0.19		
		8.75		5.72	0.05					0.00		
	W	9.00		5.65	∅					∅		
		10.5		5.48								
		12.5		5.41								
	G	15.0		4.78								
	S	16.0		4.66								
TOTALS:												
End of Measurement		Time: <u>10:15</u>		Gage Reading: <u>.2</u> ft		CALCULATIONS PERFORMED BY:				CALCULATIONS CHECKED BY:		

* COLORADO WATER CONSERVATION BOARD *
* INSTREAM FLOW / NATURAL LAKE LEVEL PROGRAM *
* STREAM CROSS-SECTION AND FLOW ANALYSIS *

LOCATION INFORMATION

STREAM NAME: Big Dominguez Creek
XS LOCATION: 400 ft. us from Tabeguache trail crossing
XS NUMBER: 1

DATE: 6/18/03
OBSERVERS: Smith and Murphy

1/4 SEC: SE
SECTION: 15
TWP: 15S
RANGE: 100W
PM: Sixth

COUNTY: Mesa
WATERSHED: Gunnison
DIVISION: 4
DOW CODE: 39811

USGS MAP: Triangle Mesa
USFS MAP:

SUPPLEMENTAL DATA *** NOTE ***
 Leave TAPE WT and TENSION
 at defaults for data collected
TAPE WT: 0.0001 with a survey level and rod
TENSION: 99999

CHANNEL PROFILE DATA

SLOPE: 0.02

INPUT DATA CHECKED BY: DATE:

ASSIGNED TO: DATE:

STREAM NAME: Big Dominguez Creek
XS LOCATION: 400 ft. us from Tabeguache trail crossing
XS NUMBER: 1

SUMMARY SHEET

MEASURED FLOW (Qm)=	0.67 cfs
CALCULATED FLOW (Qc)=	0.67 cfs
(Qm-Qc)/Qm * 100 =	1.01 %
MEASURED WATERLINE (WLm)=	5.65 ft
CALCULATED WATERLINE (WLc)=	5.65 ft
(WLm-WLc)/WLm * 100 =	0 %
MAX MEASURED DEPTH (Dm)=	0.2 ft
MAX CALCULATED DEPTH (Dc)=	0.2 ft
(Dm-Dc)/Dm * 100	-0.5 %
MEAN VELOCITY=	0.93 ft/sec
MANNING'S N=	0.06
SLOPE=	0.02 ft/ft
.4 * Qm =	0.3 cfs
2.5 * Qm=	1.7 cfs

RECOMMENDED INSTREAM FLOW:

[illegible]

RATIONALE FOR RECOMMENDATION:

=====

[illegible]

RECOMMENDATION BY: _____ AGENCY: _____ DATE: _____

CWCB REVIEW BY: _____ DATE: _____

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 400 ft. us from Tabeguache trail crossing
 XS NUMBER: 1

GL = lowest Grassline elevation corrected for sag

WL = Waterline corrected for variations in field measured water surface elevations and sag

STAGING TABLE

	DIST TO WATER (FT)	TOP WIDTH (FT)	AVG. DEPTH (FT)	MAX. DEPTH (FT)	AREA (SQ FT)	WETTED PERIM. (FT)	PERCENT WET PERIM (%)	HYDR RADIUS (FT)	FLOW (CFS)	AVG. VELOCITY (FT/SEC)
GL	4.78	12.94	0.71	1.07	9.24	13.32	100.00%	0.69	25.19	2.72
	4.8	12.82	0.7	1.05	9	13.2	99.10%	0.68	24.23	2.69
	4.85	12.52	0.67	1	8.36	12.88	96.70%	0.65	21.81	2.61
	4.9	12.21	0.63	0.95	7.75	12.56	94.30%	0.62	19.52	2.52
	4.95	11.91	0.6	0.9	7.14	12.24	91.80%	0.58	17.35	2.43
	5	11.61	0.56	0.85	6.56	11.91	89.40%	0.55	15.31	2.33
	5.05	11.3	0.53	0.8	5.98	11.59	87.00%	0.52	13.38	2.24
	5.1	11	0.49	0.75	5.43	11.27	84.60%	0.48	11.59	2.14
	5.15	10.69	0.46	0.7	4.88	10.95	82.20%	0.45	9.91	2.03
	5.2	10.39	0.42	0.65	4.36	10.63	79.80%	0.41	8.36	1.92
	5.25	10.09	0.38	0.6	3.84	10.31	77.40%	0.37	6.93	1.8
	5.3	9.78	0.34	0.55	3.35	9.99	75.00%	0.34	5.62	1.68
	5.35	9.48	0.3	0.5	2.87	9.66	72.50%	0.3	4.43	1.55
	5.4	9.17	0.26	0.45	2.4	9.34	70.10%	0.26	3.37	1.4
	5.45	7.91	0.25	0.4	1.97	8.07	60.50%	0.24	2.67	1.36
	5.5	6.75	0.24	0.35	1.61	6.89	51.70%	0.23	2.12	1.32
	5.55	6.2	0.21	0.3	1.28	6.33	47.50%	0.2	1.54	1.2
	5.6	5.66	0.17	0.25	0.99	5.77	43.30%	0.17	1.06	1.07
WL	5.65	5.1	0.14	0.2	0.72	5.21	39.10%	0.14	0.67	0.93
	5.7	4.88	0.1	0.15	0.47	4.95	37.20%	0.09	0.34	0.72
	5.75	3.91	0.06	0.1	0.23	3.95	29.70%	0.06	0.12	0.53
	5.8	2.95	0.02	0.05	0.07	2.97	22.30%	0.02	0.02	0.27
	5.85	0	ERR	0	0	0	0.00%	ERR	ERR	ERR

Criteria

Range: 0.3 - 1.7 cfs

1) $0.2' \bar{d} = 1.42 \text{ cfs}$

2) $50\% \text{ WP} = 1.88 \text{ cfs}$

3) $1 \text{ ft/sec } \bar{v} = 0.865 \text{ cfs}$

STREAM NAME:
XS LOCATION:
XS NUMBER:

Big Dominguez Creek
400 ft. us from Taboguache trail crossing

1

INPUT DATA			# DATA POINTS=										28 VALUES COMPUTED FROM RAW FIELD DATA									
FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL	PERIM.	WATER DEPTH	AREA (Am)	Q (Qm)	% Q CELL													
S	0	4.18	0	0	0	0	0	0	0.00%													
G	2	4.75	0	0	0	0	0	0	0.00%													
W	3.9	5.65	0	0	0	0	0	0	0.00%													
	4	5.75	0.1	0.35	0.14	0.1	0.02	0.01	0.90%													
	4.25	5.75	0.1	0.49	0.25	0.1	0.03	0.01	1.80%													
	4.5	5.85	0.2	0.38	0.27	0.2	0.05	0.02	2.90%													
	4.75	5.83	0.2	1.3	0.25	0.2	0.05	0.07	9.80%													
	5	5.83	0.2	1.78	0.25	0.2	0.05	0.09	13.40%													
	5.25	5.83	0.2	1.82	0.25	0.2	0.05	0.09	13.70%													
	5.5	5.8	0.15	1.27	0.25	0.15	0.04	0.05	7.20%													
	5.75	5.81	0.15	1.47	0.25	0.15	0.04	0.06	8.30%													
	6	5.82	0.15	1.11	0.25	0.15	0.04	0.04	6.30%													
	6.25	5.74	0.1	0.52	0.26	0.1	0.03	0.01	2.00%													
	6.5	5.75	0.1	0.73	0.25	0.1	0.03	0.02	2.70%													
	6.75	5.78	0.15	0.49	0.25	0.15	0.04	0.02	2.80%													
	7	5.83	0.2	0.89	0.25	0.2	0.05	0.04	6.70%													
	7.25	5.84	0.2	1.01	0.25	0.2	0.05	0.05	7.60%													
	7.5	5.81	0.15	1.05	0.25	0.15	0.04	0.04	5.90%													
	7.75	5.82	0.15	0.9	0.25	0.15	0.04	0.03	5.10%													
	8	5.81	0.15	0.32	0.25	0.15	0.04	0.01	1.80%													
	8.25	5.77	0.1	0.19	0.25	0.1	0.03	0	0.70%													
	8.5	5.74	0.1	0.19	0.25	0.1	0.03	0	0.70%													
	8.75	5.72	0.05	0	0.25	0.05	0.01	0	0.00%													
W	9	5.65	0	0	0.26	0	0	0	0.00%													
	10.5	5.48	0	0	0	0	0	0	0.00%													
	12.5	5.41	0	0	0	0	0	0	0.00%													
G	15	4.78	0	0	0	0	0	0	0.00%													
S	16	4.66	0	0	0	0	0	0	0.00%													
TOTALS					5.2	0.2	0.72	0.67	100.00%	(Max.)												

(Max.)

Manning's n =

0.0604

STREAM NAME: Big Dominguez Creek
XS LOCATION: 400 ft. us from Tabeagueche trail crossing
XS NUMBER: 1

PROOF SHEET

WATER LINE COMPARISON TABLE

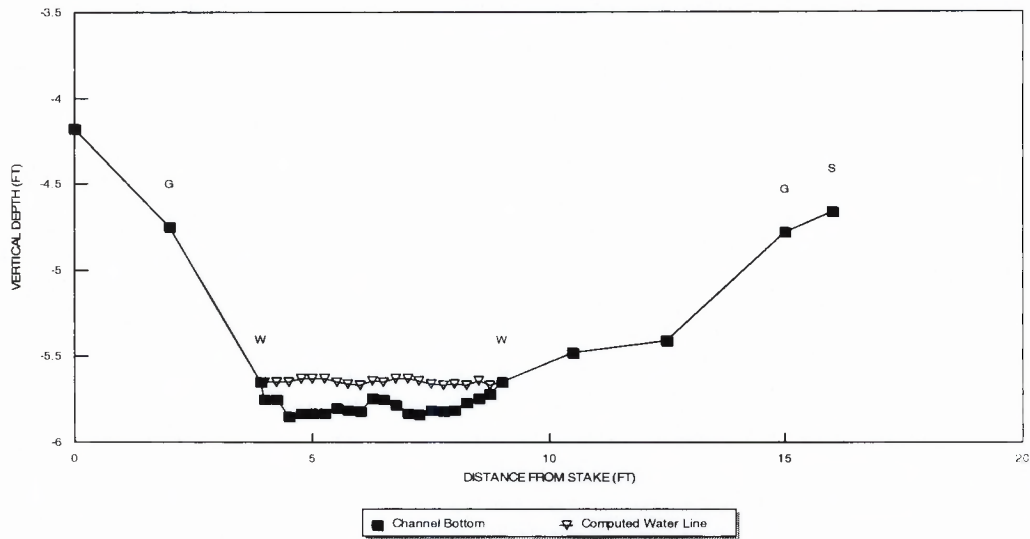
WATER LINE	MEAS AREA	COMP AREA	AREA ERROR
5.4	0.72	2.39	23.30%
5.42	0.72	2.21	208.10%
5.44	0.72	2.04	184.40%
5.46	0.72	1.88	162.40%
5.48	0.72	1.74	142.20%
5.5	0.72	1.6	123.10%
5.52	0.72	1.47	104.60%
5.54	0.72	1.34	86.70%
5.56	0.72	1.22	69.40%
5.58	0.72	1.1	52.80%
5.6	0.72	0.98	36.70%
5.61	0.72	0.93	29.00%
5.62	0.72	0.87	21.30%
5.63	0.72	0.82	13.80%
5.64	0.72	0.76	6.50%
5.65	0.72	0.71	-0.70%
5.66	0.72	0.66	-7.80%
5.67	0.72	0.61	-14.80%
5.68	0.72	0.56	-21.70%
5.69	0.72	0.51	-28.60%
5.7	0.72	0.46	-35.40%
5.72	0.72	0.37	-48.90%
5.74	0.72	0.27	-61.80%
5.76	0.72	0.19	-73.10%
5.78	0.72	0.12	-82.70%
5.8	0.72	0.06	-91.30%
5.82	0.72	0.02	-97.60%
5.84	0.72	0	-99.90%
5.86	0.72	0	-100.00%
5.88	0.72	0	-100.00%
5.9	0.72	0	-100.00%

WATERLINE AT ZERO
AREA ERROR = 5.649

INPUT DATA # DATA POINTS= 28

FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL	A	Q	TAP TO WATER
S	0	4.18	0	0	0	0	0
G	2	4.75	0	0	0	0	0
W	3.9	5.65	0	0	0	0	0
	4	5.75	0.1	0.35	0.02	0.01	5.65
	4.25	5.75	0.1	0.49	0.03	0.01	5.65
	4.5	5.85	0.2	0.38	0.05	0.02	5.65
	4.75	5.83	0.2	1.3	0.05	0.07	5.63
	5	5.83	0.2	1.78	0.05	0.09	5.63
	5.25	5.83	0.2	1.82	0.05	0.09	5.63
	5.5	5.8	0.15	1.27	0.04	0.05	5.65
	5.75	5.81	0.15	1.47	0.04	0.06	5.66
	6	5.82	0.15	1.11	0.04	0.04	5.67
	6.25	5.74	0.1	0.52	0.03	0.01	5.64
	6.5	5.75	0.1	0.73	0.03	0.02	5.65
	6.75	5.78	0.15	0.49	0.04	0.02	5.63
	7	5.83	0.2	0.89	0.05	0.04	5.63
	7.25	5.84	0.2	1.01	0.05	0.05	5.64
	7.5	5.81	0.15	1.05	0.04	0.04	5.66
	8	5.82	0.15	0.9	0.04	0.03	5.67
	7.75	5.81	0.15	0.32	0.04	0.01	5.66
	8.25	5.77	0.1	0.19	0.03	0	5.67
	8.5	5.74	0.1	0.19	0.03	0	5.64
W	9	5.65	0.05	0	0.01	0	5.67
	10.5	5.48	0	0	0	0	0
G	12.5	5.41	0	0	0	0	0
	15	4.78	0	0	0	0	0
S	16	4.66	0	0	0	0	0
TOTALS					0.72	0.67	

Big Dominguez Creek
CROSS SECTION DATA ANALYSIS





FIELD DATA FOR INSTREAM FLOW DETERMINATIONS



COLORADO WATER
CONSERVATION BOARD

LOCATION INFORMATION

STREAM NAME: <u>Big Dominguez Creek</u>		CROSS-SECTION NO.: <u>2</u>
CROSS-SECTION LOCATION: <u>200 ft. upstream from Tabeguache Trail crossing</u>		
DATE: <u>6-18-03</u>	OBSERVERS: <u>R. Smith, D. Murphy</u>	
LEGAL DESCRIPTION:	% SECTION: <u>SE</u>	SECTION: <u>15</u>
	TOWNSHIP: <u>15 N(S)</u>	RANGE: <u>100 E(W)</u>
COUNTY: <u>Mesa</u>	WATERSHED: <u>Gunnison</u>	WATER DIVISION: <u>4</u>
		DOW WATER CODE: <u>39811</u>
MAP(S):	USGS: <u>Triangle Mesa</u>	
	USFS:	

SUPPLEMENTAL DATA

SAG TAPE SECTION SAME AS DISCHARGE SECTION: ☒ YES ☐ NO	METER TYPE: <u>Marsh-McBirney</u>
METER NUMBER:	DATE RATED:
	CALIB/SPIN: <u>sec</u>
	TAPE WEIGHT: <u>surveyed</u> lbs/foot
	TAPE TENSION: <u>surveyed</u> lbs
CHANNEL BED MATERIAL SIZE RANGE: <u>gravel to 4" cobbles</u>	PHOTOGRAPHS TAKEN: ☒ YES ☐ NO
	NUMBER OF PHOTOGRAPHS: <u>3</u>

CHANNEL PROFILE DATA

STATION	DISTANCE FROM TAPE (ft)	ROD READING (ft)
(X) Tape @ Stake LB	0.0	<u>surveyed</u>
(X) Tape @ Stake RB	0.0	<u>surveyed</u>
(1) WS @ Tape LB/RB	0.0	<u>5.08 / 5.10</u>
(2) WS Upstream	<u>10.0</u>	<u>4.96</u>
(3) WS Downstream	<u>1.0</u>	<u>5.12</u>
SLOPE	<u>0.16 / 11.0 = 0.0145</u>	

SKETCH

LEGEND:

Stake (X)

Station (1)

Photo (diamond)

Direction of Flow (arrow)

AQUATIC SAMPLING SUMMARY

STREAM ELECTROFISHED: ☒ YES ☐ NO	DISTANCE ELECTROFISHED: <u>ft</u>	FISH CAUGHT: ☒ YES ☐ NO	WATER CHEMISTRY SAMPLED: ☒ YES ☐ NO														
LENGTH - FREQUENCY DISTRIBUTION BY ONE-INCH SIZE GROUPS (1.0-1.9, 2.0-2.9, ETC.)																	
SPECIES (FILL IN)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	>15	TOTAL
<u>See attached survey</u>																	
AQUATIC INSECTS IN STREAM SECTION BY COMMON OR SCIENTIFIC ORDER NAME:																	
<u>Trichoptera, ephemeroptera, chironomid</u>																	

COMMENTS

<u>pH = 8.7 TDS = 230 Stream Temp = 6°C</u>

DISCHARGE/CROSS SECTION NOTES

STREAM NAME: Big Dominguez Creek

CROSS-SECTION NO.: 2

DATE: 6-18-03

SHEET 1 OF 1

BEGINNING OF MEASUREMENT	EDGE OF WATER LOOKING DOWNSTREAM: (0.0 AT STAKE)	LEFT / RIGHT
--------------------------	---	--------------

Gage Reading: _____ ft

TIME: 10:25

Features	Stake (S) Grassline (G) Waterline (W) Rock (R)	Distance From Initial Point (ft)	Width (ft)	Total Vertical Depth From Tape/Inst (ft)	Water Depth (ft)	Depth of Observation (ft)	Revolutions	Time (sec)	Velocity (ft/sec)		Area (ft ²)	Discharge (cfs)
									At Point	Mean in Vertical		
S		4.0		4.44								
G		5.0		4.75								
		8.0		4.88								
W		10.0		5.08	0							
R		11.0		5.16	.10							
		11.25		5.17	.10					0.25		
		11.50		5.28	.20					0.60		
		11.75		5.27	.20					0.24		
		12.00		5.23	.15					0.04		
		12.25		5.20	.10					0.94		
		12.50		5.26	.20					0.82		
		12.75		5.25	.15					1.34		
		13.00		5.24	.15					1.58		
		13.25		5.30	.20					1.24		
		13.50		5.37	.25					1.55		
		13.75		5.31	.20					0.98		
		14.00		5.40	.30					0.71		
		14.25		5.24	.15					0.33		
		14.50		5.34	.25					0.33		
		14.75		5.30	.20					0.48		
		15.00		5.30	.20					0.69		
		15.25		5.32	.20					0.49		
		15.50		5.26	.15					0.79		
		15.75		5.32	.20					0.58		
		16.00		5.25	.15					0.12		
W		16.25		5.10	0					0		
G		17.20		4.68								
S		18.00		4.00								
TOTALS:												

TOTALS:

End of Measurement

Time: 10:45

Gage Repeating: _____ ft

CALCULATIONS PERFORMED BY:

CALCULATIONS CHECKED BY:

* COLORADO WATER CONSERVATION BOARD *
* INSTREAM FLOW / NATURAL LAKE LEVEL PROGRAM *
* STREAM CROSS-SECTION AND FLOW ANALYSIS *

LOCATION INFORMATION
=====

STREAM NAME: Big Dominguez Creek
XS LOCATION: 200 ft. us from Tabeguache trail crossing
XS NUMBER: 2

DATE: 6/18/03
OBSERVERS: Smith and Murphy

1/4 SEC: SE
SECTION: 15
TWP: 15S
RANGE: 100W
PM: Sixth

COUNTY: Mesa
WATERSHED: Gunnison
DIVISION: 4
DOW CODE: 39811

USGS MAP: Triangle Mesa
USFS MAP:

SUPPLEMENTAL DATA *** NOTE ***
===== Leave TAPE WT and TENSION
 at defaults for data collected
TAPE WT: 0.0001 with a survey level and rod
TENSION: 99999

CHANNEL PROFILE DATA
=====

SLOPE: 0.0145

INPUT DATA CHECKED BY: DATE.....

ASSIGNED TO: DATE.....

SUMMARY SHEET

MEASURED FLOW (Qm)=	0.66 cfs
CALCULATED FLOW (Qc)=	0.67 cfs
(Qm-Qc)/Qm * 100 =	-0.9 %

MEASURED WATERLINE (WLm)=	5.09 ft
CALCULATED WATERLINE (WLc)=	5.09 ft
(WLm-WLc)/WLm * 100 =	0 %

MAX MEASURED DEPTH (Dm)=	0.3 ft
MAX CALCULATED DEPTH (Dc)=	0.31 ft
(Dm-Dc)/Dm * 100	-3.7 %

MEAN VELOCITY= 0.68 ft/sec
MANNING'S N= 0.076
SLOPE= 0.0145 ft/ft

$.4 * Q_m =$	0.3 cfs
$2.5 * Q_m =$	1.7 cfs

RECOMMENDED INSTREAM FLOW:

FLOW (CFS)

PERIOD

1.15

winter

RATIONALE FOR RECOMMENDATION:

[illegible][illegible]

RECOMMENDATION BY: _____ AGENCY _____ DATE: _____

CWCB REVIEW BY: _____ DATE: _____

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 200 ft. us from Tabeguache trail crossing
 XS NUMBER: 2

GL = lowest Grassline elevation corrected for sag

WL = Waterline corrected for variations in field measured water surface elevations and sag

STAGING TABLE

DIST TO WATER (FT)	TOP WIDTH (FT)	AVG. DEPTH (FT)	MAX DEPTH (FT)	AREA (SQ FT)	WETTED PERIM. (FT)	PERCENT WET PERIM (%)	HYDR RADIUS (FT)	FLOW (CFS)	AVG. VELOCITY (FT/SEC)
4.75	12.04	0.32	0.65	3.9	12.33	100.00%	0.32	4.25	1.09
4.79	11.06	0.31	0.61	3.45	11.33	91.90%	0.3	3.67	1.06
4.84	9.79	0.3	0.56	2.93	10.05	81.60%	0.29	3.02	1.03
GL 4.89	8.64	0.29	0.51	2.47	8.89	72.10%	0.28	2.47	1
4.94	8.03	0.26	0.46	2.05	8.26	67.00%	0.25	1.91	0.93
4.99	7.41	0.22	0.41	1.67	7.64	62.00%	0.22	1.42	0.85
5.04	6.8	0.19	0.36	1.31	7.01	56.90%	0.19	1.01	0.77
5.09	6.16	0.16	0.31	0.99	6.36	51.60%	0.16	0.67	0.68
5.14	5.45	0.13	0.26	0.7	5.63	45.70%	0.12	0.41	0.58
5.19	4.81	0.09	0.21	0.44	4.98	40.40%	0.09	0.21	0.47
WL 5.24	4.14	0.05	0.16	0.22	4.28	34.70%	0.05	0.07	0.32
5.29	2.22	0.03	0.11	0.06	2.29	18.60%	0.03	0.01	0.21
5.34	0.27	0.03	0.06	0.01	0.3	2.50%	0.03	0	0.21
5.39	0.05	0.01	0.01	0	0.05	0.40%	0.01	0	0.07

Criteria

Range: 0.3 - 1.7 cfs

1) $0.2' \bar{d} = 1.15 \text{ cfs}$

2) $50\% \text{ WP} = 0.6 \text{ cfs}$

3) $1 \text{ ft/sec } \bar{V} = 2.47 \text{ cfs}$

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 200 ft. us from Tabeguache trail crossing
 XS NUMBER: 2

INPUT DATA		# DATA POINTS=		28 VALUES COMPUTED FROM RAW FIELD DATA						
FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL	WETTED PERIM	WATER DEPTH	AREA (Am)	Q (Qm)	% Q CELL	
S	4	4.44	0	0	0	0	0	0	0.00%	
G	5	4.75	0	0	0	0	0	0	0.00%	
	8	4.88	0	0	0	0	0	0	0.00%	
W	10	5.08	0	0	0	0	0	0	0.00%	
R	11	5.16	0.1	0	1	0.1	0.06	0	0.00%	
	11.25	5.17	0.1	0.25	0.25	0.1	0.03	0.01	0.90%	
	11.5	5.28	0.2	0.6	0.27	0.2	0.05	0.03	4.50%	
	11.75	5.27	0.2	0.24	0.25	0.2	0.05	0.01	1.80%	
	12	5.23	0.15	0.04	0.25	0.15	0.04	0	0.20%	
	12.25	5.2	0.1	0.94	0.25	0.1	0.03	0.02	3.50%	
	12.5	5.26	0.2	0.82	0.26	0.2	0.05	0.04	6.20%	
	12.75	5.25	0.15	1.34	0.25	0.15	0.04	0.05	7.60%	
	13	5.24	0.15	1.58	0.25	0.15	0.04	0.06	8.90%	
	13.25	5.3	0.2	1.24	0.26	0.2	0.05	0.06	9.30%	
	13.5	5.32	0.25	1.55	0.25	0.25	0.06	0.1	14.60%	
	13.75	5.31	0.2	0.98	0.25	0.2	0.05	0.05	7.40%	
	14	5.4	0.3	0.71	0.27	0.3	0.08	0.05	8.00%	
	14.25	5.24	0.15	0.33	0.3	0.15	0.04	0.01	1.90%	
	14.5	5.34	0.25	0.33	0.27	0.25	0.06	0.02	3.10%	
	14.75	5.3	0.2	0.48	0.25	0.2	0.05	0.02	3.60%	
	15	5.3	0.2	0.69	0.25	0.2	0.05	0.03	5.20%	
	15.25	5.32	0.2	0.49	0.25	0.2	0.05	0.02	3.70%	
	15.5	5.26	0.15	0.79	0.26	0.15	0.04	0.03	4.50%	
	15.75	5.32	0.2	0.58	0.26	0.2	0.05	0.03	4.40%	
	16	5.25	0.15	0.12	0.26	0.15	0.04	0	0.70%	
W	16.25	5.1	0	0	0.29	0	0	0	0.00%	
G	17.2	4.68	0	0	0	0	0	0	0.00%	
S	18	4	0	0	0	0	0	0	0.00%	
TOTALS -----					6.45	0.3	0.99	0.66	100.00%	
(Max.)										

(Max.)

Manning's n = 0.0762

STREAM NAME: Big Dominguez Creek
 XS LOCATION: 200 ft. us from Tabeguache trail crossing
 XS NUMBER: 2

PROOF SHEET

WATER LINE COMPARISON TABLE

WATER LINE	MEAS AREA	COMP AREA	AREA ERROR
4.84	0.99	2.92	195.40%
4.86	0.99	2.73	176.20%
4.88	0.99	2.55	157.90%
4.9	0.99	2.37	140.50%
4.92	0.99	2.21	123.50%
4.94	0.99	2.04	107.00%
4.96	0.99	1.89	91.10%
4.98	0.99	1.73	75.60%
5	0.99	1.59	60.60%
5.02	0.99	1.44	46.10%
5.04	0.99	1.3	32.10%
5.05	0.99	1.24	25.30%
5.06	0.99	1.17	18.60%
5.07	0.99	1.11	12.10%
5.08	0.99	1.04	5.60%
5.09	0.99	0.98	-0.70%
5.1	0.99	0.92	-6.80%
5.11	0.99	0.86	-12.80%
5.12	0.99	0.8	-18.70%
5.13	0.99	0.75	-24.40%
5.14	0.99	0.69	-30.00%
5.16	0.99	0.59	-40.70%
5.18	0.99	0.49	-50.70%
5.2	0.99	0.39	-60.40%
5.22	0.99	0.3	-69.80%
5.24	0.99	0.21	-78.40%
5.26	0.99	0.14	-85.80%
5.28	0.99	0.08	-91.50%
5.3	0.99	0.04	-96.00%
5.32	0.99	0.02	-98.40%
5.34	0.99	0.01	-99.20%

WATERLINE AT ZERO

AREA ERROR = 5.089

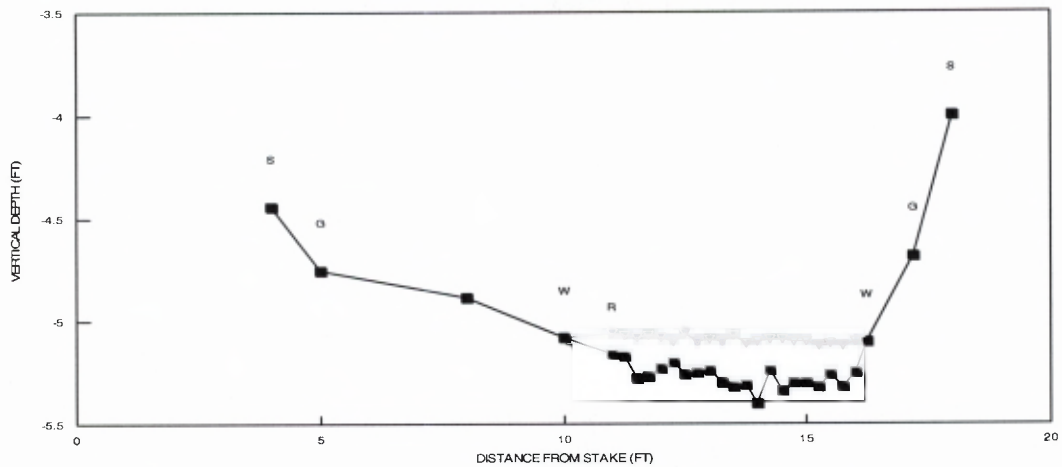
INPUT DATA

DATA POINTS=

28

FEATURE	DIST	VERT DEPTH	WATER DEPTH	VEL	A	Q	TAPE TO WATER
S	4	4.44	0	0	0	0	0
G	5	4.75	0	0	0	0	0
	8	4.88	0	0	0	0	0
W	10	5.08	0	0	0	0	0
R	11	5.16	0.1	0	0.06	0	5.06
	11.25	5.17	0.1	0.25	0.03	0.01	5.07
	11.5	5.28	0.2	0.6	0.05	0.03	5.08
	11.75	5.27	0.2	0.24	0.05	0.01	5.07
	12	5.23	0.15	0.04	0.04	0	5.08
	12.25	5.2	0.1	0.94	0.03	0.02	5.1
	12.5	5.26	0.2	0.82	0.05	0.04	5.06
	12.75	5.25	0.15	1.34	0.04	0.05	5.1
	13	5.24	0.15	1.58	0.04	0.06	5.09
	13.25	5.3	0.2	1.24	0.05	0.06	5.1
	13.5	5.32	0.25	1.55	0.06	0.1	5.07
	13.75	5.31	0.2	0.98	0.05	0.05	5.11
	14	5.4	0.3	0.71	0.08	0.05	5.1
	14.25	5.24	0.15	0.33	0.04	0.01	5.09
	14.5	5.34	0.25	0.33	0.06	0.02	5.09
	14.75	5.3	0.2	0.48	0.05	0.02	5.1
	15	5.3	0.2	0.69	0.05	0.03	5.1
	15.25	5.32	0.2	0.49	0.05	0.02	5.12
	15.5	5.26	0.15	0.79	0.04	0.03	5.11
	15.75	5.32	0.2	0.58	0.05	0.03	5.12
	16	5.25	0.15	0.12	0.04	0	5.1
W	16.25	5.1	0	0	0	0	0
G	17.2	4.68	0	0	0	0	0
S	18	4	0	0	0	0	0
TOTALS					0.99	0.66	

Big Dominguez Creek
CROSS SECTION DATA ANALYSIS



■ Channel Bottom ▽ Computed Water Line



FIELD DATA FOR INSTREAM FLOW DETERMINATIONS



COLORADO WATER
CONSERVATION BOARD

LOCATION INFORMATION

STREAM NAME: Big Dominguez Creek		CROSS-SECTION NO.: 1
CROSS-SECTION LOCATION: Approx. 300 ft. upstream from confluence with Little Dominguez Creek		
DATE: 7-15-08	OBSERVERS: R. Smith, J. Chay	
LEGAL DESCRIPTION:	1/4 SECTION: NE	SECTION: 19
	TOWNSHIP: 14 N 9 S	RANGE: 98 E W
COUNTY: Delta	WATERSHED: Gunnison	WATER DIVISION: 4
		DOW WATER CODE: 39811
MAP(S):	USGS:	
	USFS:	

SUPPLEMENTAL DATA

SAG TAPE SECTION SAME AS DISCHARGE SECTION: YES/NO	METER TYPE: M-M
METER NUMBER:	DATE RATED: surveyed
	CALIB/SPIN: sec
	TAPE WEIGHT: lbs/foot
	TAPE TENSION: lbs
CHANNEL BED MATERIAL SIZE RANGE: 4" = 18"	PHOTOGRAPHS TAKEN: YES/NO
	NUMBER OF PHOTOGRAPHS: 3

CHANNEL PROFILE DATA

STATION	DISTANCE FROM TAPE (ft)	ROD READING (ft)
(X) Tape @ Stake LB	0.0	surveyed
(X) Tape @ Stake RB	0.0	surveyed
(1) WS @ Tape LB/RB	0.0	4.00 / 3.96
(2) WS Upstream	12.0	3.86
(3) WS Downstream	12.0	4.20
SLOPE	0.34/24.0 = 0.014	

SKETCH

AQUATIC SAMPLING SUMMARY

STREAM ELECTROFISHED: YES/NO	DISTANCE ELECTROFISHED: ft	FISH CAUGHT: YES/NO	WATER CHEMISTRY SAMPLED: YES/NO														
LENGTH - FREQUENCY DISTRIBUTION BY ONE-INCH SIZE GROUPS (1.0-1.9, 2.0-2.9, ETC.)																	
SPECIES (FILL IN)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	>15	TOTAL
AQUATIC INSECTS IN STREAM SECTION BY COMMON OR SCIENTIFIC ORDER NAME:																	

COMMENTS

DISCHARGE/CROSS SECTION NOTES

STREAM NAME:

Big Dominguez

CROSS-SECTION NO:

1

DATE:

7/15/08

SHEET 1 OF 1

BEGINNING OF MEASUREMENT

EDGE OF WATER LOOKING DOWNSTREAM:
(0.0 AT STAKE)

LEFT / RIGHT

Gage Reading:

ft

TIME:

9:15 AM

Features	Stake (S) Grassline (G) Waterline (W) Rock (R)	Distance From Initial Point (ft)	Width (ft)	Total Vertical Depth From Tape/Inst (ft)	Water Depth (ft)	Depth of Observation (ft)	Revolutions	Time (sec)	Velocity (ft/sec)		Area (ft ²)	Discharge (cfs)
									At Point	Mean in Vertical		
LS+G		4.3		2.13								
W		6.3		4.00								
		6.5	.46	4.0	0.00				0.00		0	0
		7.0	.5	4.05	0.05				0.00		.025	0
		7.5		4.10	0.10				0.00		.050	0
		8.0		4.2	0.20				0.98		.10	.098
		8.5		4.2	0.20				0.53		.10	.053
		9.0		4.2	0.20				0.00		.10	0
		9.5		4.15	0.15				0.43		.075	.032
		10.0		4.25	0.25				0.47		.125	.059
		10.5		4.20	0.20				1.15		.100	.115
		11.0		4.3	0.30				1.57		.150	.236
		11.5		4.25	0.30				0.22		.190	.033
		12.0		4.40	0.40				1.53		.20	.306
		12.5		4.40	0.40				0.92		.20	.184
		13.0		4.35	0.35				0.59		.275	.103
		13.5		4.20	0.20				0.32		.10	.032
		14.0		4.20	0.15				1.17		.075	.088
		14.5		4.15	0.15				1.64		.075	.123
		15.0		4.20	0.20				0.85		.100	.085
		15.5	.75	4.05	0.05				0.00		.025	0
												1.55
												CFS
W		16		3.96								
RS+G		19.8		2.16								
TOTALS:												

End of Measurement

Time:

Gage Reading:

ft

CALCULATIONS PERFORMED BY:

CALCULATIONS CHECKED BY:



FIELD DATA FOR INSTREAM FLOW DETERMINATIONS



COLORADO WATER
CONSERVATION BOARD

LOCATION INFORMATION

STREAM NAME: Big Dominguez Creek		CROSS-SECTION NO.: 2	
CROSS-SECTION LOCATION: At footbridge in campground			
DATE: 7-15-08	OBSERVERS: R. Smith, J. Choy		
LEGAL DESCRIPTION:	1/4 SECTION: SE	SECTION: 15	TOWNSHIP: 15 N/S
COUNTY: Mesa	WATERSHED: Gunnison	WATER DIVISION: 4	RANGE: 100 E/W
USGS: Triangle Mesa 7.5'		DOW WATER CODE: 6th	
USFS:		39811	

SUPPLEMENTAL DATA

SAG TAPE SECTION SAME AS DISCHARGE SECTION: ☒ YES ☐ NO	METER TYPE: H-M		
METER NUMBER:	DATE RATED:	CALIB/SPIN: sec	TAPE WEIGHT: surveyed
CHANNEL BED MATERIAL SIZE RANGE: 2" - 18"		PHOTOGRAPHS TAKEN: ☒ YES ☐ NO	TAPE TENSION: surveyed
		NUMBER OF PHOTOGRAPHS: 3	

CHANNEL PROFILE DATA

STATION	DISTANCE FROM TAPE (ft)	ROD READING (ft)
(X) Tape @ Stake LB	0.0	surveyed
(X) Tape @ Stake RB	0.0	surveyed
(1) WS @ Tape LB/RB	0.0	4.16 / 4.20
(2) WS Upstream	10.0	4.08
(3) WS Downstream	8.0	4.24
SLOPE: 0.16 / 18.0 = .009		

SKETCH

LEGEND:

Stake (X)

Station (1)

Photo (diamond)

Direction of Flow (arrow)

AQUATIC SAMPLING SUMMARY

STREAM ELECTROFISHED: YES ☒ NO ☐	DISTANCE ELECTROFISHED: _____ ft	FISH CAUGHT: YES/NO	WATER CHEMISTRY SAMPLED: YES ☒ NO ☐														
LENGTH - FREQUENCY DISTRIBUTION BY ONE-INCH SIZE GROUPS (1.0-1.9, 2.0-2.9, ETC.)																	
SPECIES (FILL IN)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	>15	TOTAL
AQUATIC INSECTS IN STRAM SECTION BY COMMON OR SCIENTIFIC ORDER NAME:																	

COMMENTS

DISCHARGE/CROSS SECTION NOTES

STREAM NAME:

Big Dominguez Ck.

CROSS-SECTION NO.:

2

DATE:

DATE: 7-15-08

SHEET ____ OF ____

BEGINNING OF MEASUREMENT

EDGE OF WATER LOOKING DOWNSTREAM:
(0.0 AT STAKE)

LEFT / RIGHT

Gage Reading: _____

TIME: 1:30 pm

[illegible]

low_bigdom_abovefallsV2.rep

HEC-RAS Version 4.1.0 Jan 2010
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

```

X      X  XXXXXX      XXXX      XXXX      XX      XXXX
X      X  X          X      X      X      X      X
X      X  X          X          X      X      X      X
XXXXXXXX XXXX      X      XXX XXXX      XXXXXX      XXXX
X      X  X          X          X      X      X      X
X      X  X          X      X      X      X      X
X      X  XXXXXX      XXXX      X      X      X      X

```

PROJECT DATA

Project Title: lower big dominguez above FallsV2
Project File : low_bigdom_abovefallsV2.prj
Run Date and Time: 4/26/2010 11:58:34 AM

Project in English units

PLAN DATA

Plan Title: Plan 02
Plan File : x:\New Appropriations\2010 Recommendations\BLM Data\Dominguez Wilderness
Submittals to CWC\Hydrologic Modeling Files\HEC RAS Files\low bid dom above
falls_final\low_bigdom_abovefallsV2.p02

Geometry Title: lower dominguez above falls geometry V2
Geometry File : x:\New Appropriations\2010 Recommendations\BLM
Data\Dominguez Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS
Files\low bid dom above falls_final\low_bigdom_abovefallsV2.g02

Flow Title : lower big dominguez above falls flow V2
Flow File : x:\New Appropriations\2010 Recommendations\BLM
Data\Dominguez Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS
Files\low bid dom above falls_final\low_bigdom_abovefallsV2.f02

Plan Summary Information:

Number of:	Cross Sections =	21	Multiple Openings =	0
	Culverts =	0	Inline Structures =	0
	Bridges =	0	Lateral Structures =	0

Computational Information

Water surface calculation tolerance	=	0.01
Critical depth calculation tolerance	=	0.01
Maximum number of iterations	=	20
Maximum difference tolerance	=	0.3
Flow tolerance factor	=	0.001

Computation Options

Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Mixed Flow

low_bigdom_abovefallsV2.rep

FLOW DATA

Flow Title: lower big dominguez above falls flow V2
 Flow File : x:\New Appropriations\2010 Recommendations\BLM Data\Dominguez Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS Files\low bid dom above falls_final\low_bigdom_abovefallsV2.f02

Flow Data (cfs)

River PF 3	Reach PF 4	RS	PF 1	PF 2
lower big domingB 275	725	13	.511	75

Boundary Conditions

River Downstream	Reach	Profile	Upstream
lower big domingB Normal S = 0.009		PF 1	Normal S = 0.009

GEOMETRY DATA

Geometry Title: lower dominguez above falls geometry V2
 Geometry File : x:\New Appropriations\2010 Recommendations\BLM Data\Dominguez Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS Files\low bid dom above falls_final\low_bigdom_abovefallsV2.g02

CROSS SECTION

RIVER: lower big doming
 REACH: B RS: 13

INPUT

Description: cross section C

Station Elevation Data				num=	22				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	100.4	5	99.86	8	98.95	15	97.78	18	97.36
18.6	96.92	22.3	95.93	23.5	95.68	24	95.48	25	95.44
26	95.41	26.5	95.73	27.5	95.62	28	95.92	29	95.96
30.3	96.43	31.5	96.53	33	97.33	35	97.9	36.5	98.54
44	99.52	53	100.48						

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
0	.1	18	.03
		33	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	18	33		4.62	4.62	.1	.3

low_bigdom_abovefallsV2.rep

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.68	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.01	Wt. n-Val.		0.030
W.S. Elev (ft)	95.67	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	95.56	Flow Area (sq ft)		0.55
E.G. Slope (ft/ft)	0.004067	Area (sq ft)		0.55
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	3.36	Top Width (ft)		3.36
Vel Total (ft/s)	0.93	Avg. Vel. (ft/s)		0.93
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.16
Conv. Total (cfs)	8.0	Conv. (cfs)		8.0
Length Wtd. (ft)	4.62	Wetted Per. (ft)		3.49
Min Ch El (ft)	95.41	Shear (lb/sq ft)		0.04
Alpha	1.00	Stream Power (lb/ft s)	53.00	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.65	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.24	Wt. n-Val.	0.001	0.030
0.035				
W.S. Elev (ft)	97.41	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	97.03	Flow Area (sq ft)	0.01	18.90
0.01				
E.G. Slope (ft/ft)	0.005057	Area (sq ft)	0.01	18.90
0.01				
Q Total (cfs)	75.00	Flow (cfs)	0.00	75.00
0.00				
Top Width (ft)	15.61	Top Width (ft)	0.34	15.00
0.27				
Vel Total (ft/s)	3.96	Avg. Vel. (ft/s)	0.09	3.97
0.34				
Max Chl Dpth (ft)	2.00	Hydr. Depth (ft)	0.02	1.26
0.04				
Conv. Total (cfs)	1054.6	Conv. (cfs)	0.0	1054.6
0.0				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	0.34	15.81

low_bigdom_abovefallsV2.rep

0.28				
Min Ch El (ft)	95.41	Shear (lb/sq ft)		0.38
0.01				
Alpha	1.00	Stream Power (lb/ft s)	53.00	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.04
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	99.37	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.78	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	98.59	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	98.38	Flow Area (sq ft)	5.03	36.65
2.52				
E.G. Slope (ft/ft)	0.006895	Area (sq ft)	5.03	36.65
2.52				
Q Total (cfs)	275.00	Flow (cfs)	4.57	264.02
6.41				
Top Width (ft)	26.74	Top Width (ft)	7.85	15.00
3.89				
Vel Total (ft/s)	6.22	Avg. Vel. (ft/s)	0.91	7.20
2.55				
Max Chl Dpth (ft)	3.18	Hydr. Depth (ft)	0.64	2.44
0.65				
Conv. Total (cfs)	3311.9	Conv. (cfs)	55.0	3179.7
77.2				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	7.95	15.81
4.10				
Min Ch El (ft)	95.41	Shear (lb/sq ft)	0.27	1.00
0.26				
Alpha	1.29	Stream Power (lb/ft s)	53.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.09
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.04
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.58	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.31	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	100.27	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	100.22	Flow Area (sq ft)	24.85	61.88
20.36				
E.G. Slope (ft/ft)	0.006473	Area (sq ft)	24.85	61.88
20.36				
Q Total (cfs)	725.00	Flow (cfs)	38.10	612.39
74.50				

	low_bigdom_abovefallsV2.rep		
Top Width (ft)	49.87	Top Width (ft)	16.82 15.00
18.05			
Vel Total (ft/s)	6.77	Avg. Vel. (ft/s)	1.53 9.90
3.66			
Max Chl Dpth (ft)	4.86	Hydr. Depth (ft)	1.48 4.13
1.13			
Conv. Total (cfs)	9011.0	Conv. (cfs)	473.6 7611.4
926.0			
Length Wtd. (ft)	4.62	Wetted Per. (ft)	17.10 15.81
18.37			
Min Ch El (ft)	95.41	Shear (lb/sq ft)	0.59 1.58
0.45			
Alpha	1.84	Stream Power (lb/ft s)	53.00 0.00
0.00			
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.04 0.14
0.04			
C & E Loss (ft)	0.02	Cum SA (acres)	0.02 0.04
0.04			

CROSS SECTION

RIVER: lower big doming
REACH: B RS: 12.875*

INPUT									
Description:									
Station Elevation Data num= 38									
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
.38	100.2	4.12	99.71	5.24	99.6	8.15	98.79	11.62	98.25
14.96	97.73	15.38	97.67	17.88	97.31	18.47	96.87	19.45	96.55
20.12	96.34	22.11	95.86	22.94	95.71	23.29	95.63	23.5	95.54
23.78	95.44	24.06	95.43	24.77	95.4	25.75	95.37	26.25	95.67
26.75	95.65	27.25	95.61	27.75	95.89	28.35	95.93	28.75	95.97
29.25	96.17	30.05	96.44	30.75	96.51	31.25	96.56	32.75	97.29
34.79	97.85	35.41	98.1	36.32	98.46	39.84	98.94	43.96	99.44
45.15	99.56	51.09	100.21	53.12	100.48				

Manning's n Values num= 3					
Sta	n Val	Sta	n Val	Sta	n Val
.38	.1	17.88	.03	32.75	.035

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
17.88	32.75	4.62	4.62	4.62		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.66	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.01	Wt. n-Val.		0.030
W.S. Elev (ft)	95.65	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)		0.63
E.G. Slope (ft/ft)	0.002920	Area (sq ft)		0.63
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	3.66	Top Width (ft)		3.66

low_bigdom_abovefallsV2.rep

Vel Total (ft/s)	0.81	Avg. Vel. (ft/s)		0.81
Max Chl Dpth (ft)	0.28	Hydr. Depth (ft)		0.17
Conv. Total (cfs)	9.5	Conv. (cfs)		9.5
Length Wtd. (ft)	4.62	Wetted Per. (ft)		3.79
Min Ch El (ft)	95.37	Shear (lb/sq ft)		0.03
Alpha	1.00	Stream Power (lb/ft s)	53.12	0.00
0.00				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)		Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.24	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	97.38	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)	0.02	18.96
0.02				
E.G. Slope (ft/ft)	0.004934	Area (sq ft)	0.02	18.96
0.02				
Q Total (cfs)	75.00	Flow (cfs)	0.00	74.99
0.01				
Top Width (ft)	15.72	Top Width (ft)	0.51	14.87
0.34				
Vel Total (ft/s)	3.95	Avg. Vel. (ft/s)	0.11	3.96
0.38				
Max Chl Dpth (ft)	2.01	Hydr. Depth (ft)	0.04	1.27
0.05				
Conv. Total (cfs)	1067.7	Conv. (cfs)	0.0	1067.6
0.1				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	0.51	15.63
0.35				
Min Ch El (ft)	95.37	Shear (lb/sq ft)	0.01	0.37
0.01				
Alpha	1.00	Stream Power (lb/ft s)	53.12	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)		Element	Left OB	Channel
Right OB				

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	low_bigdom_abovefallsV2.rep		
Vel Head (ft)	0.79	Wt. n-Val.	0.100 0.030
0.035			
W.S. Elev (ft)	98.55	Reach Len. (ft)	4.62 4.62
4.62			
Crit W.S. (ft)	98.34	Flow Area (sq ft)	5.13 36.24
2.61			
E.G. Slope (ft/ft)	0.007037	Area (sq ft)	5.13 36.24
2.61			
Q Total (cfs)	275.00	Flow (cfs)	4.66 263.77
6.58			
Top Width (ft)	27.23	Top Width (ft)	8.16 14.87
4.20			
Vel Total (ft/s)	6.25	Avg. Vel. (ft/s)	0.91 7.28
2.52			
Max Chl Dpth (ft)	3.18	Hydr. Depth (ft)	0.63 2.44
0.62			
Conv. Total (cfs)	3278.2	Conv. (cfs)	55.5 3144.3
78.4			
Length Wtd. (ft)	4.62	Wetted Per. (ft)	8.25 15.63
4.40			
Min Ch El (ft)	95.37	Shear (lb/sq ft)	0.27 1.02
0.26			
Alpha	1.30	Stream Power (lb/ft s)	53.12 0.00
0.00			
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01 0.08
0.01			
C & E Loss (ft)	0.00	Cum SA (acres)	0.01 0.04
0.01			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.53	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.24	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	100.29	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	100.29	Flow Area (sq ft)	26.99	62.13
22.24				
E.G. Slope (ft/ft)	0.006091	Area (sq ft)	26.99	62.13
22.24				
Q Total (cfs)	725.00	Flow (cfs)	41.25	602.52
81.23				
Top Width (ft)	51.28	Top Width (ft)	17.50	14.87
18.91				
Vel Total (ft/s)	6.51	Avg. Vel. (ft/s)	1.53	9.70
3.65				
Max Chl Dpth (ft)	4.92	Hydr. Depth (ft)	1.54	4.18
1.18				
Conv. Total (cfs)	9289.4	Conv. (cfs)	528.6	7720.0
1040.8				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	17.85	15.63
19.21				
Min Ch El (ft)	95.37	Shear (lb/sq ft)	0.58	1.51
0.44				
Alpha	1.88	Stream Power (lb/ft s)	53.12	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.03	0.13
0.04				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.04

0.04

Warning: The energy equation could not be balanced within the specified number of iterations. The program used critical depth

for the water surface and continued on with the calculations.

Warning: The cross-section end points had to be extended vertically for the computed water surface.

Warning: During the standard step iterations, when the assumed water surface was set equal to critical depth, the calculated

water surface came back below critical depth. This indicates that there is not a valid subcritical answer. The program defaulted to critical depth.

CROSS SECTION

RIVER: lower big doming

REACH: B

RS: 12.75*

INPUT

Description:

Station Elevation Data				num=	38				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
.75	100.01	4.39	99.45	5.47	99.34	8.31	98.63	11.68	98.15
14.92	97.67	15.32	97.62	17.75	97.26	18.33	96.82	19.3	96.44
19.96	96.22	21.92	95.8	22.73	95.66	23.08	95.58	23.29	95.5
23.56	95.4	23.84	95.39	24.53	95.36	25.5	95.33	26	95.61
26.5	95.62	27	95.61	27.5	95.86	28.1	95.92	28.5	95.99
29	96.2	29.8	96.46	30.5	96.54	31	96.59	32.5	97.24
34.58	97.81	35.21	98.04	36.13	98.37	39.72	98.89	43.91	99.36
45.13	99.47	51.17	100.15	53.25	100.48				

Manning's n Values				num=	3		
Sta	n Val	Sta	n Val	Sta	n Val		
.75	.1	17.75	.03	32.5	.035		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	17.75	32.5		4.62	4.62		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.65	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.01	Wt. n-Val.		0.030
W.S. Elev (ft)	95.64	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)		0.74
E.G. Slope (ft/ft)	0.002090	Area (sq ft)		0.74
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	4.26	Top Width (ft)		4.26
Vel Total (ft/s)	0.69	Avg. Vel. (ft/s)		0.69
Max Chl Dpth (ft)	0.31	Hydr. Depth (ft)		0.17
Conv. Total (cfs)	11.2	Conv. (cfs)		11.2

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Length Wtd. (ft)	4.62	Wetted Per. (ft)		4.38
Min Ch El (ft)	95.33	Shear (lb/sq ft)		0.02
Alpha	1.00	Stream Power (lb/ft s)	53.25	0.00
0.00				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.60	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.24	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	97.36	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)	0.03	18.96
0.03				
E.G. Slope (ft/ft)	0.004861	Area (sq ft)	0.03	18.96
0.03				
Q Total (cfs)	75.00	Flow (cfs)	0.00	74.98
0.01				
Top Width (ft)	15.84	Top Width (ft)	0.66	14.75
0.43				
Vel Total (ft/s)	3.94	Avg. Vel. (ft/s)	0.14	3.95
0.44				
Max Chl Dpth (ft)	2.03	Hydr. Depth (ft)	0.05	1.29
0.06				
Conv. Total (cfs)	1075.7	Conv. (cfs)	0.1	1075.4
0.2				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	0.67	15.47
0.45				
Min Ch El (ft)	95.33	Shear (lb/sq ft)	0.01	0.37
0.02				
Alpha	1.01	Stream Power (lb/ft s)	53.25	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	99.31	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.81	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	98.50	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	98.31	Flow Area (sq ft)	5.25	35.79
2.72				
E.G. Slope (ft/ft)	0.007218	Area (sq ft)	5.25	35.79
2.72				

	low_bigdom_abovefallsV2.rep		
Q Total (cfs)	275.00	Flow (cfs)	4.77 263.44
6.79			
Top Width (ft)	27.79	Top Width (ft)	8.52 14.75
4.52			
Vel Total (ft/s)	6.28	Avg. Vel. (ft/s)	0.91 7.36
2.50			
Max Chl Dpth (ft)	3.17	Hydr. Depth (ft)	0.62 2.43
0.60			
Conv. Total (cfs)	3236.8	Conv. (cfs)	56.1 3100.8
79.9			
Length Wtd. (ft)	4.62	Wetted Per. (ft)	8.61 15.47
4.70			
Min Ch El (ft)	95.33	Shear (lb/sq ft)	0.27 1.04
0.26			
Alpha	1.32	Stream Power (lb/ft s)	53.25 0.00
0.00			
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01 0.08
0.01			
C & E Loss (ft)	0.00	Cum SA (acres)	0.01 0.03
0.01			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.48	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.41	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	100.07	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	100.23	Flow Area (sq ft)	25.15	59.03
19.97				
E.G. Slope (ft/ft)	0.007244	Area (sq ft)	25.15	59.03
19.97				
Q Total (cfs)	725.00	Flow (cfs)	40.81	607.64
76.55				
Top Width (ft)	49.75	Top Width (ft)	17.00	14.75
18.00				
Vel Total (ft/s)	6.96	Avg. Vel. (ft/s)	1.62	10.29
3.83				
Max Chl Dpth (ft)	4.74	Hydr. Depth (ft)	1.48	4.00
1.11				
Conv. Total (cfs)	8518.4	Conv. (cfs)	479.5	7139.4
899.5				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	17.30	15.47
18.28				
Min Ch El (ft)	95.33	Shear (lb/sq ft)	0.66	1.73
0.49				
Alpha	1.87	Stream Power (lb/ft s)	53.25	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.03	0.13
0.04				
C & E Loss (ft)	0.02	Cum SA (acres)	0.02	0.03
0.03				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

Note: Program found supercritical flow starting at this cross section.

CROSS SECTION

RIVER: lower big doming
 REACH: B

RS: 12.625*

INPUT

Description:

Station Elevation Data		num= 38		Sta Elev		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1.12	99.81	4.66	99.18	5.71	99.08	8.46	98.47	11.73	98.05		
14.88	97.62	15.27	97.57	17.62	97.21	18.2	96.77	19.15	96.33		
19.8	96.09	21.72	95.73	22.53	95.61	22.87	95.53	23.07	95.45		
23.34	95.36	23.62	95.35	24.3	95.32	25.25	95.29	25.75	95.55		
26.25	95.59	26.75	95.6	27.25	95.83	27.85	95.9	28.25	96		
28.75	96.22	29.55	96.47	30.25	96.56	30.75	96.61	32.25	97.2		
34.36	97.76	35.01	97.98	35.95	98.29	39.6	98.84	43.87	99.28		
45.11	99.39	51.26	100.1	53.38	100.48						

Manning's n Values		num= 3		Sta n Val		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val	Sta	n Val
1.12	.1	17.62	.03	32.25	.035		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	17.62	32.25		4.62	4.62		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.64	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.01	Wt. n-Val.		0.030
W.S. Elev (ft)	95.64	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)		0.88
E.G. Slope (ft/ft)	0.001245	Area (sq ft)		0.88
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	4.48	Top Width (ft)		4.48
Vel Total (ft/s)	0.58	Avg. Vel. (ft/s)		0.58
Max Chl Dpth (ft)	0.35	Hydr. Depth (ft)		0.20
Conv. Total (cfs)	14.5	Conv. (cfs)		14.5
Length Wtd. (ft)	4.62	Wetted Per. (ft)		4.60
Min Ch El (ft)	95.29	Shear (lb/sq ft)		0.01
Alpha	1.00	Stream Power (lb/ft s)	53.38	0.00
0.00				
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

low_bigdom_abovefallsV2.rep

E.G. Elev (ft)	97.58	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.24	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	97.34	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)	0.05	19.06
0.03				
E.G. Slope (ft/ft)	0.004723	Area (sq ft)	0.05	19.06
0.03				
Q Total (cfs)	75.00	Flow (cfs)	0.01	74.98
0.02				
Top Width (ft)	15.96	Top Width (ft)	0.82	14.63
0.51				
Vel Total (ft/s)	3.92	Avg. Vel. (ft/s)	0.16	3.93
0.47				
Max Chl Dpth (ft)	2.05	Hydr. Depth (ft)	0.06	1.30
0.07				
Conv. Total (cfs)	1091.3	Conv. (cfs)	0.1	1090.9
0.2				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	0.83	15.34
0.53				
Min Ch El (ft)	95.29	Shear (lb/sq ft)	0.02	0.37
0.02				
Alpha	1.01	Stream Power (lb/ft s)	53.38	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	99.28	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.82	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	98.45	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	98.28	Flow Area (sq ft)	5.43	35.43
2.83				
E.G. Slope (ft/ft)	0.007355	Area (sq ft)	5.43	35.43
2.83				
Q Total (cfs)	275.00	Flow (cfs)	4.89	263.03
7.07				
Top Width (ft)	28.47	Top Width (ft)	9.04	14.63
4.79				
Vel Total (ft/s)	6.29	Avg. Vel. (ft/s)	0.90	7.42
2.50				
Max Chl Dpth (ft)	3.16	Hydr. Depth (ft)	0.60	2.42
0.59				
Conv. Total (cfs)	3206.7	Conv. (cfs)	57.0	3067.1
82.5				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	9.13	15.34
4.97				
Min Ch El (ft)	95.29	Shear (lb/sq ft)	0.27	1.06
0.26				
Alpha	1.33	Stream Power (lb/ft s)	53.38	0.00

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0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.07
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.41	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.31	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	100.10	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	100.18	Flow Area (sq ft)	27.32	59.52
22.02				
E.G. Slope (ft/ft)	0.006700	Area (sq ft)	27.32	59.52
22.02				
Q Total (cfs)	725.00	Flow (cfs)	45.57	595.84
83.59				
Top Width (ft)	50.15	Top Width (ft)	16.50	14.63
19.02				
Vel Total (ft/s)	6.66	Avg. Vel. (ft/s)	1.67	10.01
3.80				
Max Chl Dpth (ft)	4.81	Hydr. Depth (ft)	1.66	4.07
1.16				
Conv. Total (cfs)	8857.2	Conv. (cfs)	556.7	7279.3
1021.2				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	17.00	15.34
19.28				
Min Ch El (ft)	95.29	Shear (lb/sq ft)	0.67	1.62
0.48				
Alpha	1.90	Stream Power (lb/ft s)	53.38	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.03	0.12
0.04				
C & E Loss (ft)	0.03	Cum SA (acres)	0.02	0.03
0.03				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming
REACH: B RS: 12.5*

INPUT

Description:

Station	Elevation	Data	num=	38						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
1.5	99.62	4.93	98.91	5.94	98.82	8.61	98.31	11.79	97.95	
14.83	97.57	15.21	97.53	17.5	97.16	18.06	96.72	19	96.23	
19.64	95.96	21.53	95.67	22.32	95.57	22.66	95.47	22.86	95.4	
23.12	95.32	23.39	95.3	24.06	95.28	25	95.25	25.5	95.5	
26	95.56	26.5	95.59	27	95.8	27.6	95.89	28	96.01	
28.5	96.25	29.3	96.48	30	96.58	30.5	96.64	32	97.15	

low_bigdom_abovefallsV2.rep

34.15	97.71	34.8	97.92	35.76	98.21	39.48	98.8	43.83	99.2
45.09	99.3	51.35	100.04	53.5	100.48				

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
1.5	.1	17.5	.03	32	.035

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.

	17.5	32		4.62	4.62	4.62	.1	.3
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CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.64	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.00	Wt. n-Val.		0.030
W.S. Elev (ft)	95.63	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)		1.04
E.G. Slope (ft/ft)	0.000776	Area (sq ft)		1.04
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	4.78	Top Width (ft)		4.78
Vel Total (ft/s)	0.49	Avg. Vel. (ft/s)		0.49
Max Chl Dpth (ft)	0.38	Hydr. Depth (ft)		0.22
Conv. Total (cfs)	18.3	Conv. (cfs)		18.3
Length Wtd. (ft)	4.62	Wetted Per. (ft)		4.90
Min Ch El (ft)	95.25	Shear (lb/sq ft)		0.01
Alpha	1.00	Stream Power (lb/ft s)	53.50	0.00
0.00				
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.55	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.24	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	97.31	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)	0.07	19.09
0.05				
E.G. Slope (ft/ft)	0.004644	Area (sq ft)	0.07	19.09
0.05				
Q Total (cfs)	75.00	Flow (cfs)	0.01	74.96
0.03				
Top Width (ft)	16.06	Top Width (ft)	0.94	14.50
0.62				

	low_bigdom_abovefallsV2.rep			
Vel Total (ft/s)	3.90	Avg. Vel. (ft/s)	0.18	3.93
0.53				
Max Chl Dpth (ft)	2.06	Hydr. Depth (ft)	0.08	1.32
0.08				
Conv. Total (cfs)	1100.6	Conv. (cfs)	0.2	1100.0
0.4				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	0.95	15.21
0.64				
Min Ch El (ft)	95.25	Shear (lb/sq ft)	0.02	0.36
0.02				
Alpha	1.01	Stream Power (lb/ft s)	53.50	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	99.25	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.84	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	98.41	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	98.27	Flow Area (sq ft)	5.65	35.00
2.95				
E.G. Slope (ft/ft)	0.007539	Area (sq ft)	5.65	35.00
2.95				
Q Total (cfs)	275.00	Flow (cfs)	5.16	262.38
7.46				
Top Width (ft)	28.93	Top Width (ft)	9.41	14.50
5.02				
Vel Total (ft/s)	6.31	Avg. Vel. (ft/s)	0.91	7.50
2.53				
Max Chl Dpth (ft)	3.16	Hydr. Depth (ft)	0.60	2.41
0.59				
Conv. Total (cfs)	3167.1	Conv. (cfs)	59.4	3021.7
86.0				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	9.50	15.21
5.18				
Min Ch El (ft)	95.25	Shear (lb/sq ft)	0.28	1.08
0.27				
Alpha	1.35	Stream Power (lb/ft s)	53.50	0.00
0.00				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.07
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.34	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.22	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	100.13	Reach Len. (ft)	4.62	4.62

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4.62				
Crit W.S. (ft)	100.14	Flow Area (sq ft)	29.27	59.88
24.16				
E.G. Slope (ft/ft)	0.006225	Area (sq ft)	29.27	59.88
24.16				
Q Total (cfs)	725.00	Flow (cfs)	49.87	583.42
91.71				
Top Width (ft)	50.27	Top Width (ft)	16.00	14.50
19.77				
Vel Total (ft/s)	6.40	Avg. Vel. (ft/s)	1.70	9.74
3.80				
Max Chl Dpth (ft)	4.88	Hydr. Depth (ft)	1.83	4.13
1.22				
Conv. Total (cfs)	9189.4	Conv. (cfs)	632.0	7394.9
1162.5				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	16.71	15.21
20.03				
Min Ch El (ft)	95.25	Shear (lb/sq ft)	0.68	1.53
0.47				
Alpha	1.92	Stream Power (lb/ft s)	53.50	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.02	0.11
0.03				
C & E Loss (ft)	0.03	Cum SA (acres)	0.01	0.03
0.03				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming

REACH: B

RS: 12.375*

INPUT

Description:

Station Elevation Data		num= 38							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1.87	99.42	5.2	98.64	6.18	98.56	8.76	98.15	11.84	97.84
14.79	97.51	15.16	97.48	17.38	97.11	17.93	96.67	18.85	96.12
19.48	95.84	21.34	95.6	22.12	95.52	22.45	95.42	22.64	95.35
22.91	95.29	23.17	95.26	23.83	95.24	24.75	95.2	25.25	95.44
25.75	95.53	26.25	95.58	26.75	95.77	27.35	95.87	27.75	96.03
28.25	96.28	29.05	96.49	29.75	96.61	30.25	96.67	31.75	97.11
33.94	97.67	34.6	97.87	35.58	98.13	39.36	98.75	43.78	99.12
45.07	99.22	51.44	99.99	53.62	100.47				

Manning's n Values

num= 3	
Sta	n Val
1.87	.1
17.38	.03
31.75	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	17.38	31.75		4.62	4.62	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.63	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.00	Wt. n-Val.		0.030

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W.S. Elev (ft)	95.63	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)		1.24
E.G. Slope (ft/ft)	0.000498	Area (sq ft)		1.24
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	5.29	Top Width (ft)		5.29
Vel Total (ft/s)	0.41	Avg. Vel. (ft/s)		0.41
Max Chl Dpth (ft)	0.43	Hydr. Depth (ft)		0.23
Conv. Total (cfs)	22.9	Conv. (cfs)		22.9
Length Wtd. (ft)	4.62	Wetted Per. (ft)		5.40
Min Ch El (ft)	95.20	Shear (lb/sq ft)		0.01
Alpha	1.00	Stream Power (lb/ft s)	53.62	0.00
0.00				
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.53	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.24	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	97.29	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)	0.10	19.11
0.06				
E.G. Slope (ft/ft)	0.004575	Area (sq ft)	0.10	19.11
0.06				
Q Total (cfs)	75.00	Flow (cfs)	0.02	74.95
0.04				
Top Width (ft)	16.15	Top Width (ft)	1.08	14.37
0.70				
Vel Total (ft/s)	3.89	Avg. Vel. (ft/s)	0.20	3.92
0.56				
Max Chl Dpth (ft)	2.09	Hydr. Depth (ft)	0.09	1.33
0.09				
Conv. Total (cfs)	1108.9	Conv. (cfs)	0.3	1108.1
0.5				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	1.09	15.09
0.72				
Min Ch El (ft)	95.20	Shear (lb/sq ft)	0.03	0.36
0.02				
Alpha	1.01	Stream Power (lb/ft s)	53.62	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.03
0.00				

low_bigdom_abovefallsV2.rep

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	99.21	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.86	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	98.35	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	98.26	Flow Area (sq ft)	5.90	34.40
2.99				
E.G. Slope (ft/ft)	0.007879	Area (sq ft)	5.90	34.40
2.99				
Q Total (cfs)	275.00	Flow (cfs)	5.48	261.87
7.66				
Top Width (ft)	29.46	Top Width (ft)	9.90	14.37
5.19				
Vel Total (ft/s)	6.35	Avg. Vel. (ft/s)	0.93	7.61
2.56				
Max Chl Dpth (ft)	3.15	Hydr. Depth (ft)	0.60	2.39
0.58				
Conv. Total (cfs)	3098.1	Conv. (cfs)	61.7	2950.1
86.2				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	9.98	15.09
5.34				
Min Ch El (ft)	95.20	Shear (lb/sq ft)	0.29	1.12
0.28				
Alpha	1.37	Stream Power (lb/ft s)	53.62	0.00
0.00				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.07
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.30	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.38	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	99.92	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	100.09	Flow Area (sq ft)	27.53	56.88
21.74				
E.G. Slope (ft/ft)	0.007445	Area (sq ft)	27.53	56.88
21.74				
Q Total (cfs)	725.00	Flow (cfs)	50.27	588.65
86.08				
Top Width (ft)	48.97	Top Width (ft)	15.51	14.37
19.09				
Vel Total (ft/s)	6.83	Avg. Vel. (ft/s)	1.83	10.35
3.96				
Max Chl Dpth (ft)	4.72	Hydr. Depth (ft)	1.78	3.96
1.14				
Conv. Total (cfs)	8402.6	Conv. (cfs)	582.7	6822.3
997.6				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	16.20	15.09

low_bigdom_abovefallsV2.rep

19.34				
Min Ch El (ft)	95.20	Shear (lb/sq ft)	0.79	1.75
0.52				
Alpha	1.91	Stream Power (lb/ft s)	53.62	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.02	0.11
0.03				
C & E Loss (ft)	0.02	Cum SA (acres)	0.01	0.03
0.03				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming
REACH: B

RS: 12.25*

INPUT

Description:

Station Elevation Data				num=	38				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2.25	99.22	5.46	98.37	6.42	98.31	8.92	97.99	11.89	97.74
14.75	97.46	15.11	97.43	17.25	97.06	17.79	96.62	18.7	96.01
19.32	95.71	21.15	95.54	21.91	95.47	22.23	95.37	22.43	95.3
22.69	95.25	22.95	95.22	23.59	95.2	24.5	95.16	25	95.38
25.5	95.5	26	95.58	26.5	95.74	27.1	95.86	27.5	96.04
28	96.31	28.8	96.51	29.5	96.63	30	96.7	31.5	97.07
33.72	97.62	34.4	97.81	35.39	98.04	39.24	98.7	43.74	99.04
45.04	99.13	51.53	99.93	53.75	100.47				

Manning's n Values				num=	3		
Sta	n Val	Sta	n Val	Sta	n Val		
2.25	.1	17.25	.03	31.5	.035		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	17.25	31.5		4.62	4.62		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.63	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.00	Wt. n-Val.		0.030
W.S. Elev (ft)	95.63	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)		1.46
E.G. Slope (ft/ft)	0.000335	Area (sq ft)		1.46
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	5.97	Top Width (ft)		5.97
Vel Total (ft/s)	0.35	Avg. Vel. (ft/s)		0.35
Max Chl Dpth (ft)	0.47	Hydr. Depth (ft)		0.24
Conv. Total (cfs)	27.9	Conv. (cfs)		27.9

low_bigdom_abovefallsV2.rep

Length Wtd. (ft)	4.62	Wetted Per. (ft)		6.09
Min Ch El (ft)	95.16	Shear (lb/sq ft)		0.01
Alpha	1.00	Stream Power (lb/ft s)	53.75	0.00
0.00				
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.50	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.24	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	97.27	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)	0.12	19.12
0.08				
E.G. Slope (ft/ft)	0.004533	Area (sq ft)	0.12	19.12
0.08				
Q Total (cfs)	75.00	Flow (cfs)	0.03	74.93
0.05				
Top Width (ft)	16.23	Top Width (ft)	1.19	14.25
0.79				
Vel Total (ft/s)	3.88	Avg. Vel. (ft/s)	0.22	3.92
0.60				
Max Chl Dpth (ft)	2.11	Hydr. Depth (ft)	0.10	1.34
0.10				
Conv. Total (cfs)	1113.9	Conv. (cfs)	0.4	1112.9
0.7				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	1.21	15.00
0.81				
Min Ch El (ft)	95.16	Shear (lb/sq ft)	0.03	0.36
0.03				
Alpha	1.02	Stream Power (lb/ft s)	53.75	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	99.18	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.88	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	98.31	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	98.23	Flow Area (sq ft)	6.30	33.93
3.12				
E.G. Slope (ft/ft)	0.008125	Area (sq ft)	6.30	33.93
3.12				

	low_bigdom_abovefallsV2.rep		
Q Total (cfs)	275.00	Flow (cfs)	5.86 261.05
8.09			
Top Width (ft)	30.49	Top Width (ft)	10.80 14.25
5.44			
Vel Total (ft/s)	6.34	Avg. Vel. (ft/s)	0.93 7.69
2.60			
Max Chl Dpth (ft)	3.15	Hydr. Depth (ft)	0.58 2.38
0.57			
Conv. Total (cfs)	3050.8	Conv. (cfs)	65.0 2896.1
89.7			
Length Wtd. (ft)	4.62	Wetted Per. (ft)	10.87 15.00
5.58			
Min Ch El (ft)	95.16	Shear (lb/sq ft)	0.29 1.15
0.28			
Alpha	1.40	Stream Power (lb/ft s)	53.75 0.00
0.00			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00 0.06
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.01 0.03
0.01			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.23	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.29	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	99.94	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	100.04	Flow Area (sq ft)	29.22	57.23
23.91				
E.G. Slope (ft/ft)	0.006938	Area (sq ft)	29.22	57.23
23.91				
Q Total (cfs)	725.00	Flow (cfs)	54.23	576.49
94.28				
Top Width (ft)	49.32	Top Width (ft)	15.00	14.25
20.07				
Vel Total (ft/s)	6.57	Avg. Vel. (ft/s)	1.86	10.07
3.94				
Max Chl Dpth (ft)	4.78	Hydr. Depth (ft)	1.95	4.02
1.19				
Conv. Total (cfs)	8703.8	Conv. (cfs)	651.0	6921.0
1131.8				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	15.91	15.00
20.32				
Min Ch El (ft)	95.16	Shear (lb/sq ft)	0.80	1.65
0.51				
Alpha	1.92	Stream Power (lb/ft s)	53.75	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.02	0.10
0.03				
C & E Loss (ft)	0.03	Cum SA (acres)	0.01	0.03
0.02				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

low_bigdom_abovefallsV2.rep

RIVER: lower big doming
REACH: B

RS: 12.125*

INPUT

Description:

Station Elevation Data				num=	38				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
2.62	99.03	5.73	98.1	6.65	98.05	9.07	97.83	11.95	97.64
14.71	97.41	15.05	97.38	17.12	97.01	17.66	96.57	18.55	95.91
19.16	95.59	20.95	95.47	21.71	95.43	22.02	95.32	22.21	95.25
22.47	95.21	22.72	95.18	23.36	95.16	24.25	95.12	24.75	95.32
25.25	95.47	25.75	95.57	26.25	95.71	26.85	95.84	27.25	96.05
27.75	96.33	28.55	96.52	29.25	96.66	29.75	96.73	31.25	97.02
33.51	97.57	34.2	97.75	35.21	97.96	39.12	98.65	43.69	98.96
45.02	99.05	51.61	99.88	53.88	100.47				

Manning's n Values				num=	3
Sta	n Val	Sta	n Val	Sta	n Val
2.62	.1	17.12	.03	31.25	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	17.12	31.25		4.62	4.62		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.63	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.00	Wt. n-Val.		0.030
W.S. Elev (ft)	95.63	Reach Len. (ft)	4.62	4.62
4.62		Flow Area (sq ft)		1.78
Crit W.S. (ft)		Area (sq ft)		1.78
E.G. Slope (ft/ft)	0.000208	Flow (cfs)		0.51
Q Total (cfs)	0.51	Top Width (ft)		6.88
Top Width (ft)	6.88	Avg. Vel. (ft/s)		0.29
Vel Total (ft/s)	0.29	Hydr. Depth (ft)		0.26
Max Chl Dpth (ft)	0.51	Conv. (cfs)		35.5
Conv. Total (cfs)	35.5	Wetted Per. (ft)		7.01
Length Wtd. (ft)	4.62	Shear (lb/sq ft)		0.00
Min Ch El (ft)	95.12	Stream Power (lb/ft s)	53.88	0.00
Alpha	1.00	Cum Volume (acre-ft)		0.00
0.00		Cum SA (acres)		0.01
Frctn Loss (ft)	0.00			
C & E Loss (ft)	0.00			

CROSS SECTION OUTPUT Profile #PF 2

low_bigdom_abovefallsV2.rep

		Element	Left OB	Channel
E.G. Elev (ft)	97.48			
Right OB				
Vel Head (ft)	0.24	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	97.24	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)		Flow Area (sq ft)	0.15	19.12
0.10				
E.G. Slope (ft/ft)	0.004495	Area (sq ft)	0.15	19.12
0.10				
Q Total (cfs)	75.00	Flow (cfs)	0.04	74.90
0.07				
Top Width (ft)	16.35	Top Width (ft)	1.30	14.13
0.91				
Vel Total (ft/s)	3.87	Avg. Vel. (ft/s)	0.23	3.92
0.65				
Max Chl Dpth (ft)	2.12	Hydr. Depth (ft)	0.12	1.35
0.11				
Conv. Total (cfs)	1118.6	Conv. (cfs)	0.5	1117.1
1.0				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	1.32	14.92
0.94				
Min Ch El (ft)	95.12	Shear (lb/sq ft)	0.03	0.36
0.03				
Alpha	1.02	Stream Power (lb/ft s)	53.88	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 3

		Element	Left OB	Channel
E.G. Elev (ft)	99.15			
Right OB				
Vel Head (ft)	0.88	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	98.26	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	98.24	Flow Area (sq ft)	7.06	33.54
3.28				
E.G. Slope (ft/ft)	0.008301	Area (sq ft)	7.06	33.54
3.28				
Q Total (cfs)	275.00	Flow (cfs)	6.71	259.65
8.64				
Top Width (ft)	31.74	Top Width (ft)	11.93	14.13
5.68				
Vel Total (ft/s)	6.27	Avg. Vel. (ft/s)	0.95	7.74
2.64				
Max Chl Dpth (ft)	3.14	Hydr. Depth (ft)	0.59	2.37
0.58				
Conv. Total (cfs)	3018.3	Conv. (cfs)	73.6	2849.9
94.9				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	12.02	14.92
5.81				
Min Ch El (ft)	95.12	Shear (lb/sq ft)	0.30	1.16
0.29				
Alpha	1.45	Stream Power (lb/ft s)	53.88	0.00
0.00				

low_bigdom_abovefallsV2.rep			
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00 0.06
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.01 0.03
0.01			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.16	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.20	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	99.96	Reach Len. (ft)	4.62	4.62
4.62				
Crit W.S. (ft)	99.98	Flow Area (sq ft)	30.73	57.56
26.09				
E.G. Slope (ft/ft)	0.006474	Area (sq ft)	30.73	57.56
26.09				
Q Total (cfs)	725.00	Flow (cfs)	57.65	564.12
103.23				
Top Width (ft)	49.31	Top Width (ft)	14.50	14.13
20.68				
Vel Total (ft/s)	6.34	Avg. Vel. (ft/s)	1.88	9.80
3.96				
Max Chl Dpth (ft)	4.84	Hydr. Depth (ft)	2.12	4.07
1.26				
Conv. Total (cfs)	9010.4	Conv. (cfs)	716.5	7011.0
1283.0				
Length Wtd. (ft)	4.62	Wetted Per. (ft)	15.63	14.92
20.93				
Min Ch El (ft)	95.12	Shear (lb/sq ft)	0.79	1.56
0.50				
Alpha	1.92	Stream Power (lb/ft s)	53.88	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.10
0.03				
C & E Loss (ft)	0.03	Cum SA (acres)	0.01	0.03
0.02				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming
REACH: B RS: 12

INPUT

Description: cross section D

Station	Elevation	Data	num=	21	Sta	Elev	Sta	Elev	Sta	Elev
3	98.83	6	97.83	12	97.54	15	97.33	17	96.96	
18.4	95.8	19	95.46	21.5	95.38	22	95.2	22.5	95.14	
24	95.08	25	95.44	26.6	95.83	27.5	96.36	29	96.68	
31	96.98	34	97.69	39	98.6	45	98.96	51.7	99.82	
54	100.47									

Manning's n Values num= 3
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Sta	n Val	Sta	n Val	Sta	n Val
3	.1	17	.03	31	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	17	31		4.25	4.25		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.63	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.00	Wt. n-Val.		0.030
W.S. Elev (ft)	95.63	Reach Len. (ft)	4.25	4.25
4.25		Flow Area (sq ft)		2.16
Crit W.S. (ft)		Area (sq ft)		2.16
E.G. Slope (ft/ft)	0.000114	Flow (cfs)		0.51
Q Total (cfs)	0.51	Top Width (ft)		7.07
Top Width (ft)	7.07	Avg. Vel. (ft/s)		0.24
Vel Total (ft/s)	0.24	Hydr. Depth (ft)		0.31
Max Chl Dpth (ft)	0.55	Conv. (cfs)		48.0
Conv. Total (cfs)	48.0	Wetted Per. (ft)		7.24
Length Wtd. (ft)	4.25	Shear (lb/sq ft)		0.00
Min Ch El (ft)	95.08	Stream Power (lb/ft s)	54.00	0.00
Alpha	1.00	Cum Volume (acre-ft)		0.00
0.00		Cum SA (acres)		0.01
Frctn Loss (ft)	0.00			
C & E Loss (ft)	0.00			

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.

This may indicate the need for additional cross sections.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.46	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.24	Wt. n-Val.	0.100	0.030
0.035		Reach Len. (ft)	4.25	4.25
W.S. Elev (ft)	97.22	Flow Area (sq ft)	0.18	19.11
4.25		Area (sq ft)	0.18	19.11
Crit W.S. (ft)		Flow (cfs)	0.05	74.87
0.12		Top Width (ft)	1.40	14.00
E.G. Slope (ft/ft)	0.004469			
0.12				
Q Total (cfs)	75.00			
0.08				
Top Width (ft)	16.41			
1.01				

	low_bigdom_abovefallsV2.rep		
Vel Total (ft/s)	3.86	Avg. Vel. (ft/s)	0.25 3.92
0.68			
Max Chl Dpth (ft)	2.14	Hydr. Depth (ft)	0.13 1.37
0.12			
Conv. Total (cfs)	1121.9	Conv. (cfs)	0.7 1120.0
1.2			
Length Wtd. (ft)	4.25	Wetted Per. (ft)	1.43 14.86
1.04			
Min Ch El (ft)	95.08	Shear (lb/sq ft)	0.04 0.36
0.03			
Alpha	1.03	Stream Power (lb/ft s)	54.00 0.00
0.00			
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.00 0.03
0.00			
C & E Loss (ft)	0.01	Cum SA (acres)	0.00 0.02
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	99.10	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.88	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	98.22	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)	98.21	Flow Area (sq ft)	8.00	33.19
3.46				
E.G. Slope (ft/ft)	0.008404	Area (sq ft)	8.00	33.19
3.46				
Q Total (cfs)	275.00	Flow (cfs)	8.19	257.58
9.24				
Top Width (ft)	32.12	Top Width (ft)	12.18	14.00
5.94				
Vel Total (ft/s)	6.16	Avg. Vel. (ft/s)	1.02	7.76
2.67				
Max Chl Dpth (ft)	3.14	Hydr. Depth (ft)	0.66	2.37
0.58				
Conv. Total (cfs)	2999.8	Conv. (cfs)	89.3	2809.7
100.8				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	12.30	14.86
6.07				
Min Ch El (ft)	95.08	Shear (lb/sq ft)	0.34	1.17
0.30				
Alpha	1.49	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.06
0.00				
C & E Loss (ft)	0.05	Cum SA (acres)	0.00	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.12	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.36	Wt. n-Val.	0.100	0.030
0.035				
W.S. Elev (ft)	99.76	Reach Len. (ft)	4.25	4.25

low_bigdom_abovefallsV2.rep

4.25				
Crit W.S. (ft)	99.93	Flow Area (sq ft)	28.88	54.62
23.63				
E.G. Slope (ft/ft)	0.007796	Area (sq ft)	28.88	54.62
23.63				
Q Total (cfs)	725.00	Flow (cfs)	58.30	569.06
97.64				
Top Width (ft)	48.20	Top Width (ft)	14.00	14.00
20.20				
Vel Total (ft/s)	6.77	Avg. Vel. (ft/s)	2.02	10.42
4.13				
Max Chl Dpth (ft)	4.68	Hydr. Depth (ft)	2.06	3.90
1.17				
Conv. Total (cfs)	8211.1	Conv. (cfs)	660.3	6445.0
1105.9				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	15.14	14.86
20.42				
Min Ch El (ft)	95.08	Shear (lb/sq ft)	0.93	1.79
0.56				
Alpha	1.92	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.09
0.02				
C & E Loss (ft)	0.02	Cum SA (acres)	0.01	0.03
0.02				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming
 REACH: B

RS: 11.8333*

INPUT

Description:

Station Elevation Data		num= 34							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
3	98.87	5.75	98.02	10.33	97.8	11.25	97.73	14	97.47
15.83	97.1	16.97	96.22	17.33	95.97	17.97	95.65	18.1	95.64
20.64	95.47	21.05	95.34	21.18	95.3	21.71	95.21	21.88	95.19
23.32	95.13	23.88	95.29	24.56	95.46	25.4	95.59	26.41	95.76
26.54	95.79	27.02	96.02	27.66	96.34	27.94	96.41	28.7	96.61
29.52	96.75	30.48	96.88	32	97.13	34.87	97.76	39.65	98.59
44.94	98.95	45.39	98.98	51.8	99.8	54	100.38		

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
3	.117	15.83	.032	32	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	15.83	32		4.25	4.25	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.63	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.00	Wt. n-Val.		0.032

low_bigdom_abovefallsV2.rep			
W.S. Elev (ft)	95.63	Reach Len. (ft)	4.25
4.25			
Crit W.S. (ft)		Flow Area (sq ft)	1.76
E.G. Slope (ft/ft)	0.000269	Area (sq ft)	1.76
Q Total (cfs)	0.51	Flow (cfs)	0.51
Top Width (ft)	7.33	Top Width (ft)	7.33
Vel Total (ft/s)	0.29	Avg. Vel. (ft/s)	0.29
Max Chl Dpth (ft)	0.50	Hydr. Depth (ft)	0.24
Conv. Total (cfs)	31.1	Conv. (cfs)	31.1
Length Wtd. (ft)	4.25	Wetted Per. (ft)	7.43
Min Ch El (ft)	95.13	Shear (lb/sq ft)	0.00
Alpha	1.00	Stream Power (lb/ft s)	54.00
0.00			
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.43	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.21	Wt. n-Val.	0.117	0.032
0.035				
W.S. Elev (ft)	97.22	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)	0.03	20.48
0.02				
E.G. Slope (ft/ft)	0.004824	Area (sq ft)	0.03	20.48
0.02				
Q Total (cfs)	75.00	Flow (cfs)	0.00	74.99
0.01				
Top Width (ft)	17.16	Top Width (ft)	0.59	16.17
0.40				
Vel Total (ft/s)	3.65	Avg. Vel. (ft/s)	0.13	3.66
0.36				
Max Chl Dpth (ft)	2.09	Hydr. Depth (ft)	0.06	1.27
0.04				
Conv. Total (cfs)	1079.8	Conv. (cfs)	0.1	1079.6
0.1				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	0.60	16.94
0.41				
Min Ch El (ft)	95.13	Shear (lb/sq ft)	0.02	0.36
0.01				
Alpha	1.00	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.02
0.00				

low_bigdom_abovefallsV2.rep

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	99.01	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.70	Wt. n-Val.	0.117	0.032
0.035				
W.S. Elev (ft)	98.32	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)	98.11	Flow Area (sq ft)	6.37	38.24
3.40				
E.G. Slope (ft/ft)	0.007346	Area (sq ft)	6.37	38.24
3.40				
Q Total (cfs)	275.00	Flow (cfs)	4.78	261.94
8.28				
Top Width (ft)	33.29	Top Width (ft)	11.04	16.17
6.08				
Vel Total (ft/s)	5.73	Avg. Vel. (ft/s)	0.75	6.85
2.44				
Max Chl Dpth (ft)	3.19	Hydr. Depth (ft)	0.58	2.37
0.56				
Conv. Total (cfs)	3208.4	Conv. (cfs)	55.8	3056.1
96.6				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	11.14	16.94
6.19				
Min Ch El (ft)	95.13	Shear (lb/sq ft)	0.26	1.04
0.25				
Alpha	1.37	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.05
0.00				
C & E Loss (ft)	0.03	Cum SA (acres)	0.00	0.02
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.06	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.62	Wt. n-Val.	0.117	0.032
0.035				
W.S. Elev (ft)	99.44	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)	99.81	Flow Area (sq ft)	20.32	56.45
16.40				
E.G. Slope (ft/ft)	0.011169	Area (sq ft)	20.32	56.45
16.40				
Q Total (cfs)	725.00	Flow (cfs)	35.67	617.99
71.34				
Top Width (ft)	46.01	Top Width (ft)	12.83	16.17
17.01				
Vel Total (ft/s)	7.78	Avg. Vel. (ft/s)	1.76	10.95
4.35				
Max Chl Dpth (ft)	4.31	Hydr. Depth (ft)	1.58	3.49
0.96				
Conv. Total (cfs)	6860.0	Conv. (cfs)	337.6	5847.4
675.0				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	13.59	16.94
17.19				

Min Ch El (ft)	low_bigdom_abovefallsV2.rep			
0.67	95.13	Shear (lb/sq ft)	1.04	2.32
Alpha	1.72	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01	0.08
0.02				
C & E Loss (ft)	0.03	Cum SA (acres)	0.01	0.02
0.02				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming
 REACH: B RS: 11.6666*

INPUT

Description:

Station Elevation Data	num=	34							
Sta Elev Sta Elev Sta Elev Sta Elev Sta Elev									
3 98.91 5.5 98.21 9.67 98.01 10.5 97.92 13 97.61									
14.67 97.24 15.87 96.37 16.26 96.14 16.94 95.84 17.08 95.82									
19.79 95.56 20.22 95.44 20.36 95.39 20.93 95.28 21.1 95.25									
22.63 95.18 23.3 95.34 24.11 95.47 25.12 95.58 26.33 95.71									
26.48 95.75 27.06 95.98 27.82 96.32 28.15 96.42 29.06 96.68									
30.04 96.83 31.18 96.96 33 97.28 35.74 97.84 40.3 98.59									
45.35 98.96 45.78 99 51.9 99.79 54 100.29									

Manning's n Values	num=	3
Sta n Val Sta n Val Sta n Val		
3 .133 14.67 .033 33 .035		

Bank Sta: Left Right	Lengths: Left Channel Right	Coeff Contr.	Expan.
14.67 33	4.25 4.25 4.25	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.63	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.00	Wt. n-Val.		0.033
W.S. Elev (ft)	95.63	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)		1.50
E.G. Slope (ft/ft)	0.000410	Area (sq ft)		1.50
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	6.44	Top Width (ft)		6.44
Vel Total (ft/s)	0.34	Avg. Vel. (ft/s)		0.34
Max Chl Dpth (ft)	0.45	Hydr. Depth (ft)		0.23
Conv. Total (cfs)	25.2	Conv. (cfs)		25.2
Length Wtd. (ft)	4.25	Wetted Per. (ft)		6.52

low_bigdom_abovefallsV2.rep

Min Ch El (ft)	95.18	Shear (lb/sq ft)		0.01
Alpha	1.00	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.40	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.19	Wt. n-Val.		0.033
W.S. Elev (ft)	97.21	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)		21.47
E.G. Slope (ft/ft)	0.004970	Area (sq ft)		21.47
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	17.89	Top Width (ft)		17.89
Vel Total (ft/s)	3.49	Avg. Vel. (ft/s)		3.49
Max Chl Dpth (ft)	2.03	Hydr. Depth (ft)		1.20
Conv. Total (cfs)	1063.8	Conv. (cfs)		1063.8
Length Wtd. (ft)	4.25	Wetted Per. (ft)		18.60
Min Ch El (ft)	95.18	Shear (lb/sq ft)		0.36
Alpha	1.00	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)		0.02
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	98.95	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.59	Wt. n-Val.	0.133	0.033
0.035				
W.S. Elev (ft)	98.36	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)	97.99	Flow Area (sq ft)	4.50	42.61
3.04				
E.G. Slope (ft/ft)	0.006573	Area (sq ft)	4.50	42.61
3.04				
Q Total (cfs)	275.00	Flow (cfs)	2.42	265.96
6.62				

	low_bigdom_abovefallsV2.rep		
Top Width (ft)	33.97	Top Width (ft)	9.72 18.33
5.92			
Vel Total (ft/s)	5.48	Avg. Vel. (ft/s)	0.54 6.24
2.18			
Max Chl Dpth (ft)	3.18	Hydr. Depth (ft)	0.46 2.32
0.51			
Conv. Total (cfs)	3391.9	Conv. (cfs)	29.9 3280.4
81.6			
Length Wtd. (ft)	4.25	Wetted Per. (ft)	9.81 19.05
6.02			
Min Ch El (ft)	95.18	Shear (lb/sq ft)	0.19 0.92
0.21			
Alpha	1.26	Stream Power (lb/ft s)	54.00 0.00
0.00			
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00 0.05
0.00			
C & E Loss (ft)	0.02	Cum SA (acres)	0.00 0.02
0.01			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	101.00	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.76	Wt. n-Val.	0.133	0.033
0.035				
W.S. Elev (ft)	99.23	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)	99.67	Flow Area (sq ft)	14.12	58.56
11.87				
E.G. Slope (ft/ft)	0.013743	Area (sq ft)	14.12	58.56
11.87				
Q Total (cfs)	725.00	Flow (cfs)	20.43	653.41
51.16				
Top Width (ft)	44.59	Top Width (ft)	11.67	18.33
14.59				
Vel Total (ft/s)	8.57	Avg. Vel. (ft/s)	1.45	11.16
4.31				
Max Chl Dpth (ft)	4.05	Hydr. Depth (ft)	1.21	3.19
0.81				
Conv. Total (cfs)	6184.5	Conv. (cfs)	174.3	5573.8
436.4				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	12.16	19.05
14.74				
Min Ch El (ft)	95.18	Shear (lb/sq ft)	1.00	2.64
0.69				
Alpha	1.54	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.01	0.08
0.02				
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.02
0.02				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

low_bigdom_abovefallsV2.rep

RIVER: lower big doming
REACH: B

RS: 11.5*

INPUT

Description:

Station Elevation Data		num= 34		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
3	98.94	5.25	98.41	9	98.22	9.75	98.11	12	97.74
13.5	97.38	14.78	96.51	15.19	96.31	15.91	96.03	16.06	96.01
18.93	95.66	19.39	95.54	19.54	95.49	20.14	95.35	20.33	95.31
21.95	95.23	22.73	95.39	23.67	95.49	24.84	95.57	26.25	95.66
26.43	95.71	27.09	95.93	27.97	96.3	28.36	96.42	29.42	96.75
30.56	96.9	31.89	97.05	34	97.43	36.61	97.91	40.96	98.58
45.76	98.98	46.17	99.02	52	99.77	54	100.21		

Manning's n Values		num= 3		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val
3	.15	13.5	.035	34	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	13.5	34		4.25	4.25	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.62	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.00	Wt. n-Val.		0.035
W.S. Elev (ft)	95.62	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)		1.32
E.G. Slope (ft/ft)	0.000713	Area (sq ft)		1.32
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	6.59	Top Width (ft)		6.59
Vel Total (ft/s)	0.39	Avg. Vel. (ft/s)		0.39
Max Chl Dpth (ft)	0.39	Hydr. Depth (ft)		0.20
Conv. Total (cfs)	19.1	Conv. (cfs)		19.1
Length Wtd. (ft)	4.25	Wetted Per. (ft)		6.66
Min Ch El (ft)	95.23	Shear (lb/sq ft)		0.01
Alpha	1.00	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.00	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.37	Element	Left OB	Channel
Right OB				

low_bigdom_abovefallsV2.rep			
Vel Head (ft)	0.18	Wt. n-Val.	0.035
W.S. Elev (ft)	97.19	Reach Len. (ft)	4.25
4.25			
Crit W.S. (ft)		Flow Area (sq ft)	22.17
E.G. Slope (ft/ft)	0.005366	Area (sq ft)	22.17
Q Total (cfs)	75.00	Flow (cfs)	75.00
Top Width (ft)	18.92	Top Width (ft)	18.92
Vel Total (ft/s)	3.38	Avg. Vel. (ft/s)	3.38
Max Chl Dpth (ft)	1.96	Hydr. Depth (ft)	1.17
Conv. Total (cfs)	1023.8	Conv. (cfs)	1023.8
Length Wtd. (ft)	4.25	Wetted Per. (ft)	19.54
Min Ch El (ft)	95.23	Shear (lb/sq ft)	0.38
Alpha	1.00	Stream Power (lb/ft s)	54.00
0.00			
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.02
C & E Loss (ft)	0.00	Cum SA (acres)	0.02

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	98.90	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.51	Wt. n-Val.	0.150	0.035
0.035				
W.S. Elev (ft)	98.39	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)	2.76	46.55
2.64				
E.G. Slope (ft/ft)	0.006473	Area (sq ft)	2.76	46.55
2.64				
Q Total (cfs)	275.00	Flow (cfs)	1.09	268.59
5.32				
Top Width (ft)	34.14	Top Width (ft)	7.90	20.50
5.74				
Vel Total (ft/s)	5.29	Avg. Vel. (ft/s)	0.39	5.77
2.02				
Max Chl Dpth (ft)	3.16	Hydr. Depth (ft)	0.35	2.27
0.46				
Conv. Total (cfs)	3417.9	Conv. (cfs)	13.5	3338.3
66.2				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	7.99	21.20
5.82				
Min Ch El (ft)	95.23	Shear (lb/sq ft)	0.14	0.89
0.18				
Alpha	1.16	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.02	Cum SA (acres)	0.00	0.02

0.01

CROSS SECTION OUTPUT Profile #PF 4

	E.G. Elev (ft)		Element	Left OB	Channel
Right OB					
Vel Head (ft)	1.88	0.035	Wt. n-Val.	0.150	0.035
W.S. Elev (ft)	99.04	4.25	Reach Len. (ft)	4.25	4.25
Crit W.S. (ft)	99.53	8.35	Flow Area (sq ft)	8.97	59.90
E.G. Slope (ft/ft)	0.017808	8.35	Area (sq ft)	8.97	59.90
Q Total (cfs)	725.00	36.19	Flow (cfs)	10.50	678.31
Top Width (ft)	43.36	12.36	Top Width (ft)	10.50	20.50
Vel Total (ft/s)	9.39	4.34	Avg. Vel. (ft/s)	1.17	11.32
Max Chl Dpth (ft)	3.81	0.68	Hydr. Depth (ft)	0.85	2.92
Conv. Total (cfs)	5432.9	271.2	Conv. (cfs)	78.7	5083.0
Length Wtd. (ft)	4.25	12.47	Wetted Per. (ft)	10.75	21.20
Min Ch El (ft)	95.23	0.74	Shear (lb/sq ft)	0.93	3.14
Alpha	1.37	0.00	Stream Power (lb/ft s)	54.00	0.00
Frctn Loss (ft)	0.07	0.02	Cum Volume (acre-ft)	0.01	0.07
C & E Loss (ft)	0.01	0.02	Cum SA (acres)	0.00	0.02

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming

REACH: B

RS: 11.3333*

INPUT

Description:

Station Elevation Data

num=

34

Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
3	98.98	5	98.6	8.33	98.43	9	98.3	11	97.88
12.33	97.53	13.69	96.65	14.12	96.48	14.89	96.22	15.04	96.19
18.08	95.75	18.56	95.63	18.71	95.58	19.35	95.41	19.55	95.36
21.27	95.28	22.15	95.43	23.23	95.5	24.56	95.56	26.17	95.61
26.37	95.66	27.13	95.89	28.13	96.28	28.58	96.42	29.78	96.82
31.08	96.97	32.59	97.13	35	97.58	37.48	97.99	41.61	98.57
46.18	99	46.57	99.04	52.1	99.75	54	100.12		

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val

3 .167 12.33

.037 35 .035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	12.33	35		4.25 4.25	4.25		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.62	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.00	Wt. n-Val.		0.037
W.S. Elev (ft)	95.62	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)		1.21
E.G. Slope (ft/ft)	0.001301	Area (sq ft)		1.21
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	7.61	Top Width (ft)		7.61
Vel Total (ft/s)	0.42	Avg. Vel. (ft/s)		0.42
Max Chl Dpth (ft)	0.34	Hydr. Depth (ft)		0.16
Conv. Total (cfs)	14.2	Conv. (cfs)		14.2
Length Wtd. (ft)	4.25	Wetted Per. (ft)		7.66
Min Ch El (ft)	95.28	Shear (lb/sq ft)		0.01
Alpha	1.00	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.

This may indicate the need for additional cross sections.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.34	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.17	Wt. n-Val.		0.037
W.S. Elev (ft)	97.18	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)		22.76
E.G. Slope (ft/ft)	0.005861	Area (sq ft)		22.76
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	19.96	Top Width (ft)		19.96
Vel Total (ft/s)	3.30	Avg. Vel. (ft/s)		3.30

low_bigdom_abovefallsV2.rep

Max Chl Dpth (ft)	1.90	Hydr. Depth (ft)		1.14
Conv. Total (cfs)	979.7	Conv. (cfs)		979.7
Length Wtd. (ft)	4.25	Wetted Per. (ft)		20.51
Min Ch El (ft)	95.28	Shear (lb/sq ft)		0.41
Alpha	1.00	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)		0.02
C & E Loss (ft)	0.00	Cum SA (acres)		0.02

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	98.85	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.44	Wt. n-Val.	0.167	0.037
0.035				
W.S. Elev (ft)	98.41	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)	1.60	50.16
2.17				
E.G. Slope (ft/ft)	0.006507	Area (sq ft)	1.60	50.16
2.17				
Q Total (cfs)	275.00	Flow (cfs)	0.63	270.39
3.98				
Top Width (ft)	32.01	Top Width (ft)	3.89	22.67
5.46				
Vel Total (ft/s)	5.10	Avg. Vel. (ft/s)	0.39	5.39
1.84				
Max Chl Dpth (ft)	3.13	Hydr. Depth (ft)	0.41	2.21
0.40				
Conv. Total (cfs)	3409.2	Conv. (cfs)	7.8	3352.1
49.3				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	3.99	23.37
5.52				
Min Ch El (ft)	95.28	Shear (lb/sq ft)	0.16	0.87
0.16				
Alpha	1.10	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.02
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	100.69	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.85	Wt. n-Val.	0.167	0.037
0.035				
W.S. Elev (ft)	99.84	Reach Len. (ft)	4.25	4.25
4.25				

low_bigdom_abovefallsV2.rep				
Crit W.S. (ft)	99.45	Flow Area (sq ft)	13.83	82.60
19.14				
E.G. Slope (ft/ft)	0.006941	Area (sq ft)	13.83	82.60
19.14				
Q Total (cfs)	725.00	Flow (cfs)	12.45	641.24
71.31				
Top Width (ft)	49.56	Top Width (ft)	9.33	22.67
17.56				
Vel Total (ft/s)	6.27	Avg. Vel. (ft/s)	0.90	7.76
3.73				
Max Chl Dpth (ft)	4.56	Hydr. Depth (ft)	1.48	3.64
1.09				
Conv. Total (cfs)	8702.2	Conv. (cfs)	149.5	7696.8
855.9				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	10.33	23.37
17.71				
Min Ch El (ft)	95.28	Shear (lb/sq ft)	0.58	1.53
0.47				
Alpha	1.39	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.01	0.07
0.02				
C & E Loss (ft)	0.03	Cum SA (acres)	0.00	0.02
0.01				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION

RIVER: lower big doming
REACH: B RS: 11.1666*

INPUT

Description:

Station Elevation Data		num=		34					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
3	99.02	4.75	98.79	7.67	98.64	8.25	98.49	10	98.02
11.17	97.67	12.59	96.8	13.05	96.65	13.86	96.41	14.02	96.38
17.22	95.84	17.73	95.73	17.89	95.68	18.57	95.48	18.78	95.42
20.58	95.33	21.58	95.48	22.79	95.52	24.28	95.55	26.08	95.57
26.31	95.62	27.16	95.85	28.29	96.26	28.79	96.43	30.14	96.89
31.6	97.04	33.3	97.22	36	97.73	38.35	98.06	42.26	98.57
46.59	99.01	46.96	99.06	52.2	99.74	54	100.03		

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
3	.183	11.17	.038	36	.035

Bank Sta:	Left	Right	Lengths:	Left	Channel	Right	Coeff	Contr.	Expan.
	11.17	36		4.25	4.25	4.25		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.61	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.00	Wt. n-Val.		0.038

low_bigdom_abovefallsV2.rep

W.S. Elev (ft)	95.61	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)		1.03
E.G. Slope (ft/ft)	0.002591	Area (sq ft)		1.03
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	8.13	Top Width (ft)		8.13
Vel Total (ft/s)	0.50	Avg. Vel. (ft/s)		0.50
Max Chl Dpth (ft)	0.28	Hydr. Depth (ft)		0.13
Conv. Total (cfs)	10.0	Conv. (cfs)		10.0
Length Wtd. (ft)	4.25	Wetted Per. (ft)		8.18
Min Ch El (ft)	95.33	Shear (lb/sq ft)		0.02
Alpha	1.00	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.

This may indicate the need for additional cross sections.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.32	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.16	Wt. n-Val.		0.038
W.S. Elev (ft)	97.15	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)		23.04
E.G. Slope (ft/ft)	0.006181	Area (sq ft)		23.04
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	20.65	Top Width (ft)		20.65
Vel Total (ft/s)	3.26	Avg. Vel. (ft/s)		3.26
Max Chl Dpth (ft)	1.82	Hydr. Depth (ft)		1.12
Conv. Total (cfs)	953.9	Conv. (cfs)		953.9
Length Wtd. (ft)	4.25	Wetted Per. (ft)		21.15
Min Ch El (ft)	95.33	Shear (lb/sq ft)		0.42
Alpha	1.00	Stream Power (lb/ft s)	54.00	0.00
0.00				

low_bigdom_abovefallsV2.rep		
Frctn Loss (ft)	0.03	Cum Volume (acre-ft) 0.02
C & E Loss (ft)	0.00	Cum SA (acres) 0.01

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	98.81	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.40	Wt. n-Val.	0.183	0.038
0.035				
W.S. Elev (ft)	98.41	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)	0.94	53.15
1.68				
E.G. Slope (ft/ft)	0.006440	Area (sq ft)	0.94	53.15
1.68				
Q Total (cfs)	275.00	Flow (cfs)	0.30	271.96
2.74				
Top Width (ft)	32.48	Top Width (ft)	2.62	24.83
5.03				
Vel Total (ft/s)	4.93	Avg. Vel. (ft/s)	0.32	5.12
1.63				
Max Chl Dpth (ft)	3.08	Hydr. Depth (ft)	0.36	2.14
0.33				
Conv. Total (cfs)	3426.8	Conv. (cfs)	3.8	3388.9
34.1				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	2.72	25.53
5.08				
Min Ch El (ft)	95.33	Shear (lb/sq ft)	0.14	0.84
0.13				
Alpha	1.07	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.02
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	100.63	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.76	Wt. n-Val.	0.183	0.038
0.035				
W.S. Elev (ft)	99.87	Reach Len. (ft)	4.25	4.25
4.25				
Crit W.S. (ft)		Flow Area (sq ft)	11.05	89.53
18.30				
E.G. Slope (ft/ft)	0.006500	Area (sq ft)	11.05	89.53
18.30				
Q Total (cfs)	725.00	Flow (cfs)	8.19	651.45
65.36				
Top Width (ft)	50.04	Top Width (ft)	8.17	24.83
17.04				
Vel Total (ft/s)	6.10	Avg. Vel. (ft/s)	0.74	7.28
3.57				
Max Chl Dpth (ft)	4.54	Hydr. Depth (ft)	1.35	3.61

low_bigdom_abovefallsV2.rep

1.07				
Conv. Total (cfs)	8992.4	Conv. (cfs)	101.6	8080.1
810.7				
Length Wtd. (ft)	4.25	Wetted Per. (ft)	9.18	25.53
17.17				
Min Ch El (ft)	95.33	Shear (lb/sq ft)	0.49	1.42
0.43				
Alpha	1.31	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.06
0.02				
C & E Loss (ft)	0.02	Cum SA (acres)	0.00	0.02
0.01				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming
REACH: B RS: 11

INPUT

Description: cross section E

Station Elevation Data		num= 18							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
3	99.06	7	98.85	10	97.81	11.5	96.94	13	96.56
16.9	95.83	18	95.48	19.9	95.38	21	95.53	24	95.54
26	95.52	27.2	95.81	29	96.43	30.5	96.96	34	97.3
37	97.88	47	99.03	54	99.94				

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
3	.2	10	.04	37	.035

Bank Sta: Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
10	37		4.33 4.33	4.33	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.60	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.01	Wt. n-Val.		0.040
W.S. Elev (ft)	95.59	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)		0.76
E.G. Slope (ft/ft)	0.008535	Area (sq ft)		0.76
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	8.63	Top Width (ft)		8.63
Vel Total (ft/s)	0.68	Avg. Vel. (ft/s)		0.68
Max Chl Dpth (ft)	0.21	Hydr. Depth (ft)		0.09
Conv. Total (cfs)	5.5	Conv. (cfs)		5.5

low_bigdom_abovefallsV2.rep

Length Wtd. (ft)	4.33	Wetted Per. (ft)	8.66
Min Ch El (ft)	95.38	Shear (lb/sq ft)	0.05
Alpha	1.00	Stream Power (lb/ft s)	54.00
0.00			
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.29	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.16	Wt. n-Val.		0.040
W.S. Elev (ft)	97.13	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)		23.22
E.G. Slope (ft/ft)	0.006826	Area (sq ft)		23.22
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	21.03	Top Width (ft)		21.03
Vel Total (ft/s)	3.23	Avg. Vel. (ft/s)		3.23
Max Chl Dpth (ft)	1.75	Hydr. Depth (ft)		1.10
Conv. Total (cfs)	907.8	Conv. (cfs)		907.8
Length Wtd. (ft)	4.33	Wetted Per. (ft)		21.50
Min Ch El (ft)	95.38	Shear (lb/sq ft)		0.46
Alpha	1.00	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)		0.01
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	98.77	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.37	Wt. n-Val.	0.200	0.040
0.035				
W.S. Elev (ft)	98.40	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	0.50	55.70
1.18				
E.G. Slope (ft/ft)	0.006875	Area (sq ft)	0.50	55.70
1.18				

	low_bigdom_abovefallsV2.rep		
Q Total (cfs)	275.00	Flow (cfs)	0.13 273.18
1.69			
Top Width (ft)	33.24	Top Width (ft)	1.71 27.00
4.53			
Vel Total (ft/s)	4.79	Avg. Vel. (ft/s)	0.26 4.90
1.43			
Max Chl Dpth (ft)	3.02	Hydr. Depth (ft)	0.30 2.06
0.26			
Conv. Total (cfs)	3316.7	Conv. (cfs)	1.6 3294.7
20.4			
Length Wtd. (ft)	4.33	Wetted Per. (ft)	1.80 27.72
4.56			
Min Ch El (ft)	95.38	Shear (lb/sq ft)	0.12 0.86
0.11			
Alpha	1.04	Stream Power (lb/ft s)	54.00 0.00
0.00			
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00 0.03
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.01
0.00			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	100.58	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.68	Wt. n-Val.	0.200	0.040
0.035				
W.S. Elev (ft)	99.90	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	8.51	96.23
17.40				
E.G. Slope (ft/ft)	0.006465	Area (sq ft)	8.51	96.23
17.40				
Q Total (cfs)	725.00	Flow (cfs)	5.28	659.00
60.72				
Top Width (ft)	50.71	Top Width (ft)	7.00	27.00
16.71				
Vel Total (ft/s)	5.94	Avg. Vel. (ft/s)	0.62	6.85
3.49				
Max Chl Dpth (ft)	4.52	Hydr. Depth (ft)	1.22	3.56
1.04				
Conv. Total (cfs)	9016.8	Conv. (cfs)	65.7	8195.9
755.1				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	8.02	27.72
16.83				
Min Ch El (ft)	95.38	Shear (lb/sq ft)	0.43	1.40
0.42				
Alpha	1.24	Stream Power (lb/ft s)	54.00	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.05
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.01				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

low_bigdom_abovefallsV2.rep

RIVER: lower big doming
REACH: B

RS: 10.8333*

INPUT

Description:

Station Elevation Data		num= 33	
Sta	Elev	Sta	Elev
2.5	99.1	5.93	98.7
10.04	96.71	10.27	96.67
15.59	95.74	16.01	95.61
18.67	95.31	19.65	95.47
23.38	95.61	24.14	95.6
28.17	96.79	31.31	97.16
45.08	98.99	50.14	99.68

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
2.5	.175	8.5	.04
		34	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	8.5	34		4.33	4.33		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.54	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.02	Wt. n-Val.		0.040
W.S. Elev (ft)	95.53	Reach Len. (ft)	4.33	4.33
4.33		Flow Area (sq ft)		0.52
Crit W.S. (ft)		Area (sq ft)		0.52
E.G. Slope (ft/ft)	0.014992	Flow (cfs)		0.51
Q Total (cfs)	0.51	Top Width (ft)		5.13
Top Width (ft)	5.13	Avg. Vel. (ft/s)		0.98
Vel Total (ft/s)	0.98	Hydr. Depth (ft)		0.10
Max Chl Dpth (ft)	0.22	Conv. (cfs)		4.2
Conv. Total (cfs)	4.2	Wetted Per. (ft)		5.16
Length Wtd. (ft)	4.33	Shear (lb/sq ft)		0.09
Min Ch El (ft)	95.31	Stream Power (lb/ft s)	52.83	0.00
Alpha	1.00	Cum Volume (acre-ft)		0.00
0.00		Cum SA (acres)		0.00
Frctn Loss (ft)	0.07			
C & E Loss (ft)	0.00			

CROSS SECTION OUTPUT Profile #PF 2

		low_bigdom_abovefallsV2.rep		
E.G. Elev (ft)	97.25	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.17	Wt. n-Val.		0.040
W.S. Elev (ft)	97.08	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)		22.44
E.G. Slope (ft/ft)	0.007793	Area (sq ft)		22.44
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	21.38	Top Width (ft)		21.38
Vel Total (ft/s)	3.34	Avg. Vel. (ft/s)		3.34
Max Chl Dpth (ft)	1.77	Hydr. Depth (ft)		1.05
Conv. Total (cfs)	849.6	Conv. (cfs)		849.6
Length Wtd. (ft)	4.33	Wetted Per. (ft)		21.80
Min Ch El (ft)	95.31	Shear (lb/sq ft)		0.50
Alpha	1.00	Stream Power (lb/ft s)	52.83	0.00
0.00				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)		0.01
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	98.74	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.40	Wt. n-Val.	0.175	0.040
0.035				
W.S. Elev (ft)	98.34	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	0.57	53.39
1.94				
E.G. Slope (ft/ft)	0.007246	Area (sq ft)	0.57	53.39
1.94				
Q Total (cfs)	275.00	Flow (cfs)	0.19	271.46
3.35				
Top Width (ft)	33.05	Top Width (ft)	1.68	25.50
5.87				
Vel Total (ft/s)	4.92	Avg. Vel. (ft/s)	0.33	5.08
1.72				
Max Chl Dpth (ft)	3.03	Hydr. Depth (ft)	0.34	2.09
0.33				
Conv. Total (cfs)	3230.5	Conv. (cfs)	2.2	3188.9
39.3				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	1.81	26.19
5.91				
Min Ch El (ft)	95.31	Shear (lb/sq ft)	0.14	0.92
0.15				
Alpha	1.06	Stream Power (lb/ft s)	52.83	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.02

low_bigdom_abovefallsV2.rep

0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	100.55	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.71	Wt. n-Val.	0.175	0.040
0.035				
W.S. Elev (ft)	99.83	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	7.46	91.52
19.43				
E.G. Slope (ft/ft)	0.006813	Area (sq ft)	7.46	91.52
19.43				
Q Total (cfs)	725.00	Flow (cfs)	5.47	646.16
73.37				
Top Width (ft)	48.73	Top Width (ft)	6.00	25.50
17.23				
Vel Total (ft/s)	6.12	Avg. Vel. (ft/s)	0.73	7.06
3.78				
Max Chl Dpth (ft)	4.52	Hydr. Depth (ft)	1.24	3.59
1.13				
Conv. Total (cfs)	8783.8	Conv. (cfs)	66.3	7828.6
888.9				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	6.96	26.19
17.37				
Min Ch El (ft)	95.31	Shear (lb/sq ft)	0.46	1.49
0.48				
Alpha	1.22	Stream Power (lb/ft s)	52.83	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.04
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.01				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming

REACH: B RS: 10.6666*

INPUT

Description:

Station	Elevation	Data	num=	33						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
2	99.13	4.86	98.54	7	97.51	7.45	96.97	7.91	96.69	
8.58	96.48	8.81	96.46	10.16	96.32	11.54	96.23	13.44	95.81	
14.27	95.65	14.71	95.52	15.07	95.41	15.43	95.34	16.53	95.31	
17.43	95.24	18.31	95.41	18.69	95.45	19.94	95.51	20.69	95.6	
21.61	95.69	22.27	95.68	23.22	95.87	24.65	96.27	25.78	96.6	
25.84	96.62	28.62	97.01	31	97.55	35.43	97.92	39.12	98.42	
43.16	98.95	48.71	99.74	51.67	100.18					

low_bigdom_abovefallsV2.rep
Manning's n Values num= 3
Sta n Val Sta n Val Sta n Val
2 .15 7 .04 31 .035

Bank Sta: Left 7 Right 31 Lengths: Left 4.33 Channel 4.33 Right 4.33 Coeff Contr. .1 Expan. .3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.47	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.02	Wt. n-Val.		0.040
W.S. Elev (ft)	95.45	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)		0.45
E.G. Slope (ft/ft)	0.016202	Area (sq ft)		0.45
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	3.81	Top Width (ft)		3.81
Vel Total (ft/s)	1.13	Avg. Vel. (ft/s)		1.13
Max Chl Dpth (ft)	0.21	Hydr. Depth (ft)		0.12
Conv. Total (cfs)	4.0	Conv. (cfs)		4.0
Length Wtd. (ft)	4.33	Wetted Per. (ft)		3.84
Min Ch El (ft)	95.24	Shear (lb/sq ft)		0.12
Alpha	1.00	Stream Power (lb/ft s)	51.67	0.00
0.00				
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.21	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.18	Wt. n-Val.		0.040
W.S. Elev (ft)	97.03	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)		21.87
E.G. Slope (ft/ft)	0.008467	Area (sq ft)		21.87
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	21.31	Top Width (ft)		21.31
Vel Total (ft/s)	3.43	Avg. Vel. (ft/s)		3.43
Max Chl Dpth (ft)	1.79	Hydr. Depth (ft)		1.03

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Conv. Total (cfs)	815.1	Conv. (cfs)	815.1
Length Wtd. (ft)	4.33	Wetted Per. (ft)	21.75
Min Ch El (ft)	95.24	Shear (lb/sq ft)	0.53
Alpha 0.00	1.00	Stream Power (lb/ft s)	51.67
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.01
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	98.70	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.42	Wt. n-Val.	0.150	0.040
0.035				
W.S. Elev (ft)	98.28	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	0.61	51.05
2.86				
E.G. Slope (ft/ft)	0.007648	Area (sq ft)	0.61	51.05
2.86				
Q Total (cfs)	275.00	Flow (cfs)	0.26	268.94
5.80				
Top Width (ft)	32.64	Top Width (ft)	1.59	24.00
7.05				
Vel Total (ft/s)	5.04	Avg. Vel. (ft/s)	0.43	5.27
2.03				
Max Chl Dpth (ft)	3.04	Hydr. Depth (ft)	0.38	2.13
0.41				
Conv. Total (cfs)	3144.6	Conv. (cfs)	3.0	3075.3
66.3				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	1.77	24.72
7.09				
Min Ch El (ft)	95.24	Shear (lb/sq ft)	0.16	0.99
0.19				
Alpha	1.07	Stream Power (lb/ft s)	51.67	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	100.51	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.75	Wt. n-Val.	0.150	0.040
0.035				
W.S. Elev (ft)	99.76	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	6.38	86.79
21.57				

	low_bigdom_abovefallsV2.rep			
E.G. Slope (ft/ft)	0.007198	Area (sq ft)	6.38	86.79
21.57				
Q Total (cfs)	725.00	Flow (cfs)	5.63	631.79
87.58				
Top Width (ft)	46.88	Top Width (ft)	5.00	24.00
17.88				
Vel Total (ft/s)	6.32	Avg. Vel. (ft/s)	0.88	7.28
4.06				
Max Chl Dpth (ft)	4.52	Hydr. Depth (ft)	1.28	3.62
1.21				
Conv. Total (cfs)	8545.5	Conv. (cfs)	66.4	7446.8
1032.3				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	5.93	24.72
18.02				
Min Ch El (ft)	95.24	Shear (lb/sq ft)	0.48	1.58
0.54				
Alpha	1.21	Stream Power (lb/ft s)	51.67	0.00
0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.03
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.01				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming
 REACH: B RS: 10.5*

INPUT

Description:

Station Elevation Data				num=	33				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1.5	99.16	3.79	98.39	5.5	97.36	5.97	96.67	6.43	96.38
7.12	96.25	7.36	96.25	8.74	96.2	10.15	96.19	12.11	95.72
12.96	95.56	13.41	95.44	13.78	95.31	14.15	95.26	15.27	95.25
16.2	95.17	16.96	95.36	17.29	95.41	18.38	95.5	19.03	95.63
19.83	95.77	20.41	95.76	21.24	95.9	22.48	96.19	23.46	96.43
23.51	96.45	25.93	96.87	28	97.38	32.82	97.72	36.84	98.3
41.24	98.92	47.29	99.8	50.5	100.29				

Manning's n Values				num=	3		
Sta	n Val	Sta	n Val	Sta	n Val		
1.5	.125	5.5	.04	28	.035		

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	5.5	28		4.33	4.33	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.41	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.02	Wt. n-Val.		0.040
W.S. Elev (ft)	95.39	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)		0.45
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E.G. Slope (ft/ft)	0.014823	Area (sq ft)		0.45
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	3.57	Top Width (ft)		3.57
Vel Total (ft/s)	1.13	Avg. Vel. (ft/s)		1.13
Max Chl Dpth (ft)	0.22	Hydr. Depth (ft)		0.13
Conv. Total (cfs)	4.2	Conv. (cfs)		4.2
Length Wtd. (ft)	4.33	Wetted Per. (ft)		3.62
Min Ch El (ft)	95.17	Shear (lb/sq ft)		0.12
Alpha 0.00	1.00	Stream Power (lb/ft s)	50.50	0.00
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.17	Element	Left OB	Channel
Right OB Vel Head (ft)	0.19	Wt. n-Val.		0.040
W.S. Elev (ft)	96.98	Reach Len. (ft)	4.33	4.33
4.33 Crit W.S. (ft)		Flow Area (sq ft)		21.41
E.G. Slope (ft/ft)	0.008765	Area (sq ft)		21.41
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	20.63	Top Width (ft)		20.63
Vel Total (ft/s)	3.50	Avg. Vel. (ft/s)		3.50
Max Chl Dpth (ft)	1.81	Hydr. Depth (ft)		1.04
Conv. Total (cfs)	801.1	Conv. (cfs)		801.1
Length Wtd. (ft)	4.33	Wetted Per. (ft)		21.19
Min Ch El (ft)	95.17	Shear (lb/sq ft)		0.55
Alpha 0.00	1.00	Stream Power (lb/ft s)	50.50	0.00
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)		0.01
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 3

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E.G. Elev (ft)	98.66	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.45	Wt. n-Val.	0.125	0.040
0.035				
W.S. Elev (ft)	98.21	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	0.60	48.73
4.03				
E.G. Slope (ft/ft)	0.008027	Area (sq ft)	0.60	48.73
4.03				
Q Total (cfs)	275.00	Flow (cfs)	0.33	265.17
9.50				
Top Width (ft)	32.15	Top Width (ft)	1.42	22.50
8.23				
Vel Total (ft/s)	5.15	Avg. Vel. (ft/s)	0.54	5.44
2.35				
Max Chl Dpth (ft)	3.04	Hydr. Depth (ft)	0.43	2.17
0.49				
Conv. Total (cfs)	3069.4	Conv. (cfs)	3.7	2959.8
106.0				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	1.65	23.31
8.28				
Min Ch El (ft)	95.17	Shear (lb/sq ft)	0.18	1.05
0.24				
Alpha	1.08	Stream Power (lb/ft s)	50.50	0.00
0.00				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	100.48	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.78	Wt. n-Val.	0.125	0.040
0.035				
W.S. Elev (ft)	99.70	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	5.22	82.09
23.95				
E.G. Slope (ft/ft)	0.007590	Area (sq ft)	5.22	82.09
23.95				
Q Total (cfs)	725.00	Flow (cfs)	5.60	614.98
104.41				
Top Width (ft)	45.07	Top Width (ft)	4.00	22.50
18.57				
Vel Total (ft/s)	6.52	Avg. Vel. (ft/s)	1.07	7.49
4.36				
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)	1.30	3.65
1.29				
Conv. Total (cfs)	8321.9	Conv. (cfs)	64.3	7059.1
1198.5				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	4.95	23.31
18.72				
Min Ch El (ft)	95.17	Shear (lb/sq ft)	0.50	1.67
0.61				
Alpha	1.19	Stream Power (lb/ft s)	50.50	0.00

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0.00				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.02
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.01				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming
REACH: B RS: 10.3333*

INPUT

Description:

Station Elevation Data				num=	33				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
1	99.2	2.71	98.23	4	97.22	4.48	96.37	4.95	96.07
5.66	96.03	5.91	96.03	7.32	96.08	8.77	96.15	10.77	95.64
11.64	95.46	12.11	95.35	12.49	95.22	12.86	95.19	14.01	95.2
14.97	95.1	15.61	95.3	15.89	95.36	16.82	95.49	17.37	95.66
18.05	95.86	18.55	95.84	19.25	95.92	20.31	96.11	21.14	96.26
21.19	96.27	23.24	96.73	25	97.21	30.21	97.53	34.56	98.18
39.31	98.88	45.86	99.86	49.33	100.41				

Manning's n Values				num=	3
Sta	n Val	Sta	n Val	Sta	n Val
1	.1	4	.04	25	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	4	25		4.33	4.33		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.34	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.02	Wt. n-Val.		0.040
W.S. Elev (ft)	95.32	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)		0.44
E.G. Slope (ft/ft)	0.016353	Area (sq ft)		0.44
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	3.49	Top Width (ft)		3.49
Vel Total (ft/s)	1.17	Avg. Vel. (ft/s)		1.17
Max Chl Dpth (ft)	0.22	Hydr. Depth (ft)		0.12
Conv. Total (cfs)	4.0	Conv. (cfs)		4.0
Length Wtd. (ft)	4.33	Wetted Per. (ft)		3.55
Min Ch El (ft)	95.10	Shear (lb/sq ft)		0.13

Alpha	1.00	low_bigdom_abovefallsV2.rep	Stream Power (lb/ft s)	49.33	0.00
0.00					
Frctn Loss (ft)	0.07		Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00		Cum SA (acres)		0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.13	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.20	Wt. n-Val.		0.040
W.S. Elev (ft)	96.93	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)		21.05
E.G. Slope (ft/ft)	0.008925	Area (sq ft)		21.05
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	19.82	Top Width (ft)		19.82
Vel Total (ft/s)	3.56	Avg. Vel. (ft/s)		3.56
Max Chl Dpth (ft)	1.83	Hydr. Depth (ft)		1.06
Conv. Total (cfs)	793.9	Conv. (cfs)		793.9
Length Wtd. (ft)	4.33	Wetted Per. (ft)		20.58
Min Ch El (ft)	95.10	Shear (lb/sq ft)		0.57
Alpha	1.00	Stream Power (lb/ft s)	49.33	0.00
0.00				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	98.62	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.47	Wt. n-Val.	0.100	0.040
0.035				
W.S. Elev (ft)	98.15	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	0.55	46.43
5.34				
E.G. Slope (ft/ft)	0.008398	Area (sq ft)	0.55	46.43
5.34				
Q Total (cfs)	275.00	Flow (cfs)	0.38	260.36
14.26				
Top Width (ft)	31.54	Top Width (ft)	1.19	21.00
9.36				
Vel Total (ft/s)	5.26	Avg. Vel. (ft/s)	0.70	5.61

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2.67				
Max Chl Dpth (ft)	3.05	Hydr. Depth (ft)	0.46	2.21
0.57				
Conv. Total (cfs)	3000.8	Conv. (cfs)	4.2	2841.0
155.6				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	1.51	21.96
9.41				
Min Ch El (ft)	95.10	Shear (lb/sq ft)	0.19	1.11
0.30				
Alpha	1.09	Stream Power (lb/ft s)	49.33	0.00
0.00				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	100.44	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.81	Wt. n-Val.	0.100	0.040
0.035				
W.S. Elev (ft)	99.63	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	4.01	77.43
26.52				
E.G. Slope (ft/ft)	0.007999	Area (sq ft)	4.01	77.43
26.52				
Q Total (cfs)	725.00	Flow (cfs)	5.31	595.93
123.76				
Top Width (ft)	43.29	Top Width (ft)	3.00	21.00
19.29				
Vel Total (ft/s)	6.72	Avg. Vel. (ft/s)	1.32	7.70
4.67				
Max Chl Dpth (ft)	4.53	Hydr. Depth (ft)	1.34	3.69
1.37				
Conv. Total (cfs)	8106.4	Conv. (cfs)	59.4	6663.2
1383.9				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	4.03	21.96
19.46				
Min Ch El (ft)	95.10	Shear (lb/sq ft)	0.50	1.76
0.68				
Alpha	1.16	Stream Power (lb/ft s)	49.33	0.00
0.00				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.01
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming
 REACH: B

RS: 10.1666*

low_bigdom_abovefallsV2.rep

INPUT

Description:

Station Elevation Data		num=		33					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
.5	99.24	1.64	98.08	2.5	97.07	2.99	96.08	3.48	95.76
4.2	95.8	4.45	95.82	5.9	95.96	7.38	96.11	9.44	95.55
10.33	95.37	10.8	95.27	11.19	95.13	11.58	95.12	12.76	95.14
13.73	95.03	14.27	95.24	14.5	95.32	15.26	95.48	15.72	95.69
16.28	95.94	16.68	95.92	17.26	95.95	18.13	96.03	18.82	96.09
18.86	96.1	20.55	96.59	22	97.05	27.61	97.34	32.28	98.07
37.39	98.84	44.43	99.92	48.17	100.53				

Manning's n Values

num=		3	
Sta	n Val	Sta	n Val
.5	.075	2.5	.04
		22	.035

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	2.5	22		4.33	4.33	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	95.27	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.02	Wt. n-Val.		0.040
W.S. Elev (ft)	95.25	Reach Len. (ft)	4.33	4.33
4.33		Flow Area (sq ft)		0.45
Crit W.S. (ft)		Area (sq ft)		0.45
E.G. Slope (ft/ft)	0.014946	Flow (cfs)		0.51
Q Total (cfs)	0.51	Top Width (ft)		3.47
Top Width (ft)	3.47	Avg. Vel. (ft/s)		1.14
Vel Total (ft/s)	1.14	Hydr. Depth (ft)		0.13
Max Chl Dpth (ft)	0.22	Conv. (cfs)		4.2
Conv. Total (cfs)	4.2	Wetted Per. (ft)		3.54
Length Wtd. (ft)	4.33	Shear (lb/sq ft)		0.12
Min Ch El (ft)	95.03	Stream Power (lb/ft s)	48.17	0.00
Alpha	1.00	Cum Volume (acre-ft)		0.00
0.00		Cum SA (acres)		0.00
Frctn Loss (ft)	0.05			
C & E Loss (ft)	0.00			

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.09	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.20	Wt. n-Val.		0.040
W.S. Elev (ft)	96.88	Reach Len. (ft)	4.33	4.33

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4.33			
Crit W.S. (ft)		Flow Area (sq ft)	20.72
E.G. Slope (ft/ft)	0.009006	Area (sq ft)	20.72
Q Total (cfs)	75.00	Flow (cfs)	75.00
Top Width (ft)	18.89	Top Width (ft)	18.89
Vel Total (ft/s)	3.62	Avg. Vel. (ft/s)	3.62
Max Chl Dpth (ft)	1.85	Hydr. Depth (ft)	1.10
Conv. Total (cfs)	790.3	Conv. (cfs)	790.3
Length Wtd. (ft)	4.33	Wetted Per. (ft)	19.92
Min Ch El (ft)	95.03	Shear (lb/sq ft)	0.58
Alpha	1.00	Stream Power (lb/ft s)	48.17
0.00			0.00
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.00

CROSS SECTION OUTPUT Profile #PF 3

		Element	Left OB	Channel
E.G. Elev (ft)	98.57			
Right OB				
Vel Head (ft)	0.49	Wt. n-Val.	0.075	0.040
0.035				
W.S. Elev (ft)	98.09	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	0.44	44.12
6.78				
E.G. Slope (ft/ft)	0.008772	Area (sq ft)	0.44	44.12
6.78				
Q Total (cfs)	275.00	Flow (cfs)	0.39	254.39
20.22				
Top Width (ft)	30.76	Top Width (ft)	0.87	19.50
10.39				
Vel Total (ft/s)	5.36	Avg. Vel. (ft/s)	0.89	5.77
2.98				
Max Chl Dpth (ft)	3.06	Hydr. Depth (ft)	0.51	2.26
0.65				
Conv. Total (cfs)	2936.1	Conv. (cfs)	4.2	2716.1
215.9				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	1.34	20.68
10.46				
Min Ch El (ft)	95.03	Shear (lb/sq ft)	0.18	1.17
0.36				
Alpha	1.09	Stream Power (lb/ft s)	48.17	0.00
0.00				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.00
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 4

		Element	Left OB	Channel
E.G. Elev (ft)	100.40			
Right OB				
Vel Head (ft)	0.85	Wt. n-Val.	0.075	0.040
0.035				
W.S. Elev (ft)	99.55	Reach Len. (ft)	4.33	4.33
4.33				
Crit W.S. (ft)		Flow Area (sq ft)	2.72	72.72
29.13				
E.G. Slope (ft/ft)	0.008481	Area (sq ft)	2.72	72.72
29.13				
Q Total (cfs)	725.00	Flow (cfs)	4.39	575.29
145.32				
Top Width (ft)	41.54	Top Width (ft)	2.00	19.50
20.04				
Vel Total (ft/s)	6.93	Avg. Vel. (ft/s)	1.61	7.91
4.99				
Max Chl Dpth (ft)	4.52	Hydr. Depth (ft)	1.36	3.73
1.45				
Conv. Total (cfs)	7872.6	Conv. (cfs)	47.7	6246.9
1577.9				
Length Wtd. (ft)	4.33	Wetted Per. (ft)	3.27	20.68
20.22				
Min Ch El (ft)	95.03	Shear (lb/sq ft)	0.44	1.86
0.76				
Alpha	1.14	Stream Power (lb/ft s)	48.17	0.00
0.00				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

Warning: The cross-section end points had to be extended vertically for the computed water surface.

CROSS SECTION

RIVER: lower big doming

REACH: B RS: 10

INPUT

Description: cross section F - furthest downstream xsec in reach

Station Elevation Data		num= 20							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	99.27	1	96.92	1.5	95.78	2	95.45	3	95.61
6	96.07	8.1	95.47	9.5	95.18	9.9	95.04	11.5	95.08
12.5	94.96	13.1	95.28	13.7	95.47	14.5	96.02	16.5	95.92
19	96.88	25	97.15	30	97.95	43	99.98	47	100.65

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
0	.05	1	.04	19	.035

Bank Sta:	Left	Right	Coeff Contr.	Expan.
	1	19	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

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E.G. Elev (ft)	95.22	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.01	Wt. n-Val.		0.040
W.S. Elev (ft)	95.21	Reach Len. (ft)		
Crit W.S. (ft)	95.14	Flow Area (sq ft)		0.53
E.G. Slope (ft/ft)	0.009014	Area (sq ft)		0.53
Q Total (cfs)	0.51	Flow (cfs)		0.51
Top Width (ft)	3.61	Top Width (ft)		3.61
Vel Total (ft/s)	0.96	Avg. Vel. (ft/s)		0.96
Max Chl Dpth (ft)	0.25	Hydr. Depth (ft)		0.15
Conv. Total (cfs)	5.4	Conv. (cfs)		5.4
Length Wtd. (ft)		Wetted Per. (ft)		3.71
Min Ch El (ft)	94.96	Shear (lb/sq ft)		0.08
Alpha	1.00	Stream Power (lb/ft s)	47.00	0.00
0.00		Cum Volume (acre-ft)		
Frctn Loss (ft)		Cum SA (acres)		
C & E Loss (ft)				

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	97.04	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.21	Wt. n-Val.		0.040
W.S. Elev (ft)	96.84	Reach Len. (ft)		
Crit W.S. (ft)	96.47	Flow Area (sq ft)		20.45
E.G. Slope (ft/ft)	0.009007	Area (sq ft)		20.45
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	17.85	Top Width (ft)		17.85
Vel Total (ft/s)	3.67	Avg. Vel. (ft/s)		3.67
Max Chl Dpth (ft)	1.88	Hydr. Depth (ft)		1.15
Conv. Total (cfs)	790.3	Conv. (cfs)		790.3
Length Wtd. (ft)		Wetted Per. (ft)		19.28
Min Ch El (ft)	94.96	Shear (lb/sq ft)		0.60
Alpha	1.00	Stream Power (lb/ft s)	47.00	0.00

low_bigdom_abovefallsV2.rep

0.00
Frctn Loss (ft) Cum Volume (acre-ft)
C & E Loss (ft) Cum SA (acres)

CROSS SECTION OUTPUT Profile #PF 3

		Element	Left OB	Channel
E.G. Elev (ft)	98.53			
Right OB				
Vel Head (ft)	0.50	Wt. n-Val.	0.050	0.040
0.035				
W.S. Elev (ft)	98.03	Reach Len. (ft)		
Crit W.S. (ft)	97.68	Flow Area (sq ft)	0.26	41.98
8.53				
E.G. Slope (ft/ft)	0.009003	Area (sq ft)	0.26	41.98
8.53				
Q Total (cfs)	275.00	Flow (cfs)	0.27	246.72
28.01				
Top Width (ft)	30.00	Top Width (ft)	0.47	18.00
11.53				
Vel Total (ft/s)	5.42	Avg. Vel. (ft/s)	1.02	5.88
3.28				
Max Chl Dpth (ft)	3.07	Hydr. Depth (ft)	0.56	2.33
0.74				
Conv. Total (cfs)	2898.2	Conv. (cfs)	2.8	2600.2
295.2				
Length Wtd. (ft)		Wetted Per. (ft)	1.21	19.50
11.60				
Min Ch El (ft)	94.96	Shear (lb/sq ft)	0.12	1.21
0.41				
Alpha	1.09	Stream Power (lb/ft s)	47.00	0.00
0.00				
Frctn Loss (ft)		Cum Volume (acre-ft)		
C & E Loss (ft)		Cum SA (acres)		

CROSS SECTION OUTPUT Profile #PF 4

		Element	Left OB	Channel
E.G. Elev (ft)	100.36			
Right OB				
Vel Head (ft)	0.88	Wt. n-Val.	0.050	0.040
0.035				
W.S. Elev (ft)	99.48	Reach Len. (ft)		
Crit W.S. (ft)	99.12	Flow Area (sq ft)	1.39	68.05
31.94				
E.G. Slope (ft/ft)	0.009013	Area (sq ft)	1.39	68.05
31.94				
Q Total (cfs)	725.00	Flow (cfs)	2.47	552.19
170.35				
Top Width (ft)	39.80	Top Width (ft)	1.00	18.00
20.80				
Vel Total (ft/s)	7.15	Avg. Vel. (ft/s)	1.78	8.11
5.33				

	low_bigdom_abovefallsV2.rep		
Max Chl Dpth (ft)	4.52	Hydr. Depth (ft)	1.39 3.78
1.54			
Conv. Total (cfs)	7636.6	Conv. (cfs)	26.0 5816.3
1794.3			
Length Wtd. (ft)		Wetted Per. (ft)	2.76 19.50
20.99			
Min Ch El (ft)	94.96	Shear (lb/sq ft)	0.28 1.96
0.86			
Alpha	1.11	Stream Power (lb/ft s)	47.00 0.00
0.00			
Frctn Loss (ft)		Cum Volume (acre-ft)	
C & E Loss (ft)		Cum SA (acres)	

SUMMARY OF MANNING'S N VALUES

River:lower big doming

Reach	River Sta.	n1	n2	n3
B	13	.1	.03	.035
B	12.875*	.1	.03	.035
B	12.75*	.1	.03	.035
B	12.625*	.1	.03	.035
B	12.5*	.1	.03	.035
B	12.375*	.1	.03	.035
B	12.25*	.1	.03	.035
B	12.125*	.1	.03	.035
B	12	.1	.03	.035
B	11.8333*	.117	.032	.035
B	11.6666*	.133	.033	.035
B	11.5*	.15	.035	.035
B	11.3333*	.167	.037	.035
B	11.1666*	.183	.038	.035
B	11	.2	.04	.035
B	10.8333*	.175	.04	.035
B	10.6666*	.15	.04	.035
B	10.5*	.125	.04	.035
B	10.3333*	.1	.04	.035
B	10.1666*	.075	.04	.035
B	10	.05	.04	.035

SUMMARY OF REACH LENGTHS

River: lower big doming

Reach	River Sta.	Left	Channel	Right
B	13	4.62	4.62	4.62
B	12.875*	4.62	4.62	4.62
B	12.75*	4.62	4.62	4.62
B	12.625*	4.62	4.62	4.62
B	12.5*	4.62	4.62	4.62
B	12.375*	4.62	4.62	4.62
B	12.25*	4.62	4.62	4.62

low_bigdom_abovefallsV2.rep

B	12.125*	4.62	4.62	4.62
B	12	4.25	4.25	4.25
B	11.8333*	4.25	4.25	4.25
B	11.6666*	4.25	4.25	4.25
B	11.5*	4.25	4.25	4.25
B	11.3333*	4.25	4.25	4.25
B	11.1666*	4.25	4.25	4.25
B	11	4.33	4.33	4.33
B	10.8333*	4.33	4.33	4.33
B	10.6666*	4.33	4.33	4.33
B	10.5*	4.33	4.33	4.33
B	10.3333*	4.33	4.33	4.33
B	10.1666*	4.33	4.33	4.33
B	10			

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: lower big doming

Reach	River Sta.	Contr.	Expan.
B	13	.1	.3
B	12.875*	.1	.3
B	12.75*	.1	.3
B	12.625*	.1	.3
B	12.5*	.1	.3
B	12.375*	.1	.3
B	12.25*	.1	.3
B	12.125*	.1	.3
B	12	.1	.3
B	11.8333*	.1	.3
B	11.6666*	.1	.3
B	11.5*	.1	.3
B	11.3333*	.1	.3
B	11.1666*	.1	.3
B	11	.1	.3
B	10.8333*	.1	.3
B	10.6666*	.1	.3
B	10.5*	.1	.3
B	10.3333*	.1	.3
B	10.1666*	.1	.3
B	10	.1	.3

Profile Output Table - Standard Table 1

Reach E.G. Elev (ft)	River Sta E.G. Slope (ft/ft)	Profile Vel Chnl (ft/s)	Q Total Flow Area (sq ft)	Min Ch El Top Width (ft)	W.S. Elev Froude # Chl (ft)	Crit W.S. (ft)
B	13	PF 1	0.51	95.41	95.67	95.56
95.68	0.004067	0.93	0.55	3.36	0.40	
B	13	PF 2	75.00	95.41	97.41	97.03
97.65	0.005057	3.97	18.92	15.61	0.62	
B	13	PF 3	275.00	95.41	98.59	98.38
99.37	0.006895	7.20	44.19	26.74	0.81	
B	13	PF 4	725.00	95.41	100.27	100.22

low_bigdom_abovefallsV2.rep						
101.58	0.006473	9.90	107.08	49.87	0.86	
B	12.875*	PF 1	0.51	95.37	95.65	
95.66	0.002920	0.81	0.63	3.66	0.34	
B	12.875*	PF 2	75.00	95.37	97.38	
97.63	0.004934	3.96	18.99	15.72	0.62	
B	12.875*	PF 3	275.00	95.37	98.55	98.34
99.34	0.007037	7.28	43.98	27.23	0.82	
B	12.875*	PF 4	725.00	95.37	100.29	100.29
101.53	0.006091	9.70	111.36	51.28	0.84	
B	12.75*	PF 1	0.51	95.33	95.64	
95.65	0.002090	0.69	0.74	4.26	0.29	
B	12.75*	PF 2	75.00	95.33	97.36	
97.60	0.004861	3.95	19.02	15.84	0.61	
B	12.75*	PF 3	275.00	95.33	98.50	98.31
99.31	0.007218	7.36	43.76	27.79	0.83	
B	12.75*	PF 4	725.00	95.33	100.07	100.23
101.48	0.007244	10.29	104.15	49.75	0.91	
B	12.625*	PF 1	0.51	95.29	95.64	
95.64	0.001245	0.58	0.88	4.48	0.23	
B	12.625*	PF 2	75.00	95.29	97.34	
97.58	0.004723	3.93	19.14	15.96	0.61	
B	12.625*	PF 3	275.00	95.29	98.45	98.28
99.28	0.007355	7.42	43.69	28.47	0.84	
B	12.625*	PF 4	725.00	95.29	100.10	100.18
101.41	0.006700	10.01	108.85	50.15	0.87	
B	12.5*	PF 1	0.51	95.25	95.63	
95.64	0.000776	0.49	1.04	4.78	0.19	
B	12.5*	PF 2	75.00	95.25	97.31	
97.55	0.004644	3.93	19.21	16.06	0.60	
B	12.5*	PF 3	275.00	95.25	98.41	98.27
99.25	0.007539	7.50	43.60	28.93	0.85	
B	12.5*	PF 4	725.00	95.25	100.13	100.14
101.34	0.006225	9.74	113.31	50.27	0.85	
B	12.375*	PF 1	0.51	95.20	95.63	
95.63	0.000498	0.41	1.24	5.29	0.15	
B	12.375*	PF 2	75.00	95.20	97.29	
97.53	0.004575	3.92	19.27	16.15	0.60	
B	12.375*	PF 3	275.00	95.20	98.35	98.26
99.21	0.007879	7.61	43.28	29.46	0.87	
B	12.375*	PF 4	725.00	95.20	99.92	100.09
101.30	0.007445	10.35	106.15	48.97	0.92	
B	12.25*	PF 1	0.51	95.16	95.63	
95.63	0.000335	0.35	1.46	5.97	0.12	
B	12.25*	PF 2	75.00	95.16	97.27	
97.50	0.004533	3.92	19.32	16.23	0.60	
B	12.25*	PF 3	275.00	95.16	98.31	98.23
99.18	0.008125	7.69	43.35	30.49	0.88	
B	12.25*	PF 4	725.00	95.16	99.94	100.04
101.23	0.006938	10.07	110.36	49.32	0.89	

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B		12.125*	PF 1	0.51	95.12	95.63	
	95.63	0.000208		0.29	1.78	6.88	0.10
B		12.125*	PF 2	75.00	95.12	97.24	
	97.48	0.004495		3.92	19.37	16.35	0.59
B		12.125*	PF 3	275.00	95.12	98.26	98.24
	99.15	0.008301		7.74	43.87	31.74	0.89
B		12.125*	PF 4	725.00	95.12	99.96	99.98
	101.16	0.006474		9.80	114.37	49.31	0.86
B		12	PF 1	0.51	95.08	95.63	
	95.63	0.000114		0.24	2.16	7.07	0.08
B		12	PF 2	75.00	95.08	97.22	
	97.46	0.004469		3.92	19.42	16.41	0.59
B		12	PF 3	275.00	95.08	98.22	98.21
	99.10	0.008404		7.76	44.65	32.12	0.89
B		12	PF 4	725.00	95.08	99.76	99.93
	101.12	0.007796		10.42	107.14	48.20	0.93
B		11.8333*	PF 1	0.51	95.13	95.63	
	95.63	0.000269		0.29	1.76	7.33	0.10
B		11.8333*	PF 2	75.00	95.13	97.22	
	97.43	0.004824		3.66	20.54	17.16	0.57
B		11.8333*	PF 3	275.00	95.13	98.32	98.11
	99.01	0.007346		6.85	48.01	33.29	0.78
B		11.8333*	PF 4	725.00	95.13	99.44	99.81
	101.06	0.011169		10.95	93.17	46.01	1.03
B		11.6666*	PF 1	0.51	95.18	95.63	
	95.63	0.000410		0.34	1.50	6.44	0.12
B		11.6666*	PF 2	75.00	95.18	97.21	
	97.40	0.004970		3.49	21.47	17.89	0.56
B		11.6666*	PF 3	275.00	95.18	98.36	97.99
	98.95	0.006573		6.24	50.14	33.97	0.72
B		11.6666*	PF 4	725.00	95.18	99.23	99.67
	101.00	0.013743		11.16	84.55	44.59	1.10
B		11.5*	PF 1	0.51	95.23	95.62	
	95.62	0.000713		0.39	1.32	6.59	0.15
B		11.5*	PF 2	75.00	95.23	97.19	
	97.37	0.005366		3.38	22.17	18.92	0.55
B		11.5*	PF 3	275.00	95.23	98.39	
	98.90	0.006473		5.77	51.95	34.14	0.67
B		11.5*	PF 4	725.00	95.23	99.04	99.53
	100.92	0.017808		11.32	77.22	43.36	1.17
B		11.3333*	PF 1	0.51	95.28	95.62	
	95.62	0.001301		0.42	1.21	7.61	0.19
B		11.3333*	PF 2	75.00	95.28	97.18	
	97.34	0.005861		3.30	22.76	19.96	0.54
B		11.3333*	PF 3	275.00	95.28	98.41	
	98.85	0.006507		5.39	53.93	32.01	0.64
B		11.3333*	PF 4	725.00	95.28	99.84	99.45
	100.69	0.006941		7.76	115.57	49.56	0.72
B		11.1666*	PF 1	0.51	95.33	95.61	
	95.61	0.002591		0.50	1.03	8.13	0.25
B		11.1666*	PF 2	75.00	95.33	97.15	

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	97.32	0.006181	3.26	23.04	20.65	0.54
B		11.1666*	PF 3	275.00	95.33	98.41
	98.81	0.006440	5.12	55.78	32.48	0.62
B		11.1666*	PF 4	725.00	95.33	99.87
	100.63	0.006500	7.28	118.88	50.04	0.68
B		11	PF 1	0.51	95.38	95.59
	95.60	0.008535	0.68	0.76	8.63	0.40
B		11	PF 2	75.00	95.38	97.13
	97.29	0.006826	3.23	23.22	21.03	0.54
B		11	PF 3	275.00	95.38	98.40
	98.77	0.006875	4.90	57.38	33.24	0.60
B		11	PF 4	725.00	95.38	99.90
	100.58	0.006465	6.85	122.13	50.71	0.64
B		10.8333*	PF 1	0.51	95.31	95.53
	95.54	0.014992	0.98	0.52	5.13	0.54
B		10.8333*	PF 2	75.00	95.31	97.08
	97.25	0.007793	3.34	22.44	21.38	0.57
B		10.8333*	PF 3	275.00	95.31	98.34
	98.74	0.007246	5.08	55.91	33.05	0.62
B		10.8333*	PF 4	725.00	95.31	99.83
	100.55	0.006813	7.06	118.41	48.73	0.66
B		10.6666*	PF 1	0.51	95.24	95.45
	95.47	0.016202	1.13	0.45	3.81	0.58
B		10.6666*	PF 2	75.00	95.24	97.03
	97.21	0.008467	3.43	21.87	21.31	0.60
B		10.6666*	PF 3	275.00	95.24	98.28
	98.70	0.007648	5.27	54.52	32.64	0.64
B		10.6666*	PF 4	725.00	95.24	99.76
	100.51	0.007198	7.28	114.74	46.88	0.67
B		10.5*	PF 1	0.51	95.17	95.39
	95.41	0.014823	1.13	0.45	3.57	0.56
B		10.5*	PF 2	75.00	95.17	96.98
	97.17	0.008765	3.50	21.41	20.63	0.61
B		10.5*	PF 3	275.00	95.17	98.21
	98.66	0.008027	5.44	53.37	32.15	0.65
B		10.5*	PF 4	725.00	95.17	99.70
	100.48	0.007590	7.49	111.26	45.07	0.69
B		10.3333*	PF 1	0.51	95.10	95.32
	95.34	0.016353	1.17	0.44	3.49	0.59
B		10.3333*	PF 2	75.00	95.10	96.93
	97.13	0.008925	3.56	21.05	19.82	0.61
B		10.3333*	PF 3	275.00	95.10	98.15
	98.62	0.008398	5.61	52.33	31.54	0.66
B		10.3333*	PF 4	725.00	95.10	99.63
	100.44	0.007999	7.70	107.96	43.29	0.71
B		10.1666*	PF 1	0.51	95.03	95.25
	95.27	0.014946	1.14	0.45	3.47	0.56
B		10.1666*	PF 2	75.00	95.03	96.88
	97.09	0.009006	3.62	20.72	18.89	0.61
B		10.1666*	PF 3	275.00	95.03	98.09
	98.57	0.008772	5.77	51.34	30.76	0.68

low_bigdom_abovefallsV2.rep						
B	10.1666*	PF 4	725.00	95.03	99.55	
100.40	0.008481	7.91	104.57	41.54	0.72	
B	10	PF 1	0.51	94.96	95.21	95.14
95.22	0.009014	0.96	0.53	3.61	0.44	
B	10	PF 2	75.00	94.96	96.84	96.47
97.04	0.009007	3.67	20.45	17.85	0.60	
B	10	PF 3	275.00	94.96	98.03	97.68
98.53	0.009003	5.88	50.78	30.00	0.68	
B	10	PF 4	725.00	94.96	99.48	99.12
100.36	0.009013	8.11	101.38	39.80	0.74	

Profile Output Table - Standard Table 2

Reach	River Sta	Profile	E.G. Elev	W.S. Elev	Vel Head	Frctn
Loss	C & E Loss	Q Channel	Q Right	Top Width	(ft)	
(ft)	(ft)	(cfs)	(ft)	(ft)		
B	13	PF 1	95.68	95.67	0.01	
0.02	0.00	0.51		3.36		
B	13	PF 2	97.65	97.41	0.24	
0.02	0.00	75.00	0.00	15.61		
B	13	PF 3	99.37	98.59	0.78	
0.03	0.00	264.02	6.41	26.74		
B	13	PF 4	101.58	100.27	1.31	
0.03	0.02	612.39	74.50	49.87		
B	12.875*	PF 1	95.66	95.65	0.01	
0.01	0.00	0.51		3.66		
B	12.875*	PF 2	97.63	97.38	0.24	
0.02	0.00	74.99	0.01	15.72		
B	12.875*	PF 3	99.34	98.55	0.79	
0.03	0.00	263.77	6.58	27.23		
B	12.875*	PF 4	101.53	100.29	1.24	
0.03	0.00	602.52	81.23	51.28		
B	12.75*	PF 1	95.65	95.64	0.01	
0.01	0.00	0.51		4.26		
B	12.75*	PF 2	97.60	97.36	0.24	
0.02	0.00	74.98	0.01	15.84		
B	12.75*	PF 3	99.31	98.50	0.81	
0.03	0.00	263.44	6.79	27.79		
B	12.75*	PF 4	101.48	100.07	1.41	
0.03	0.02	607.64	76.55	49.75		
B	12.625*	PF 1	95.64	95.64	0.01	
0.00	0.00	0.51		4.48		
B	12.625*	PF 2	97.58	97.34	0.24	
0.02	0.00	74.98	0.02	15.96		
B	12.625*	PF 3	99.28	98.45	0.82	
0.03	0.00	263.03	7.07	28.47		
B	12.625*	PF 4	101.41	100.10	1.31	
0.03	0.03	595.84	83.59	50.15		

low_bigdom_abovefallsV2.rep

B	12.5*	PF 1	95.64	95.63	0.00
0.00	0.00	0.51		4.78	
B	12.5*	PF 2	97.55	97.31	0.24
0.02	0.00	0.01	74.96	0.03	16.06
B	12.5*	PF 3	99.25	98.41	0.84
0.04	0.00	5.16	262.38	7.46	28.93
B	12.5*	PF 4	101.34	100.13	1.22
0.03	0.03	49.87	583.42	91.71	50.27

B	12.375*	PF 1	95.63	95.63	0.00
0.00	0.00	0.51		5.29	
B	12.375*	PF 2	97.53	97.29	0.24
0.02	0.00	0.02	74.95	0.04	16.15
B	12.375*	PF 3	99.21	98.35	0.86
0.04	0.00	5.48	261.87	7.66	29.46
B	12.375*	PF 4	101.30	99.92	1.38
0.03	0.02	50.27	588.65	86.08	48.97

B	12.25*	PF 1	95.63	95.63	0.00
0.00	0.00	0.51		5.97	
B	12.25*	PF 2	97.50	97.27	0.24
0.02	0.00	0.03	74.93	0.05	16.23
B	12.25*	PF 3	99.18	98.31	0.88
0.04	0.00	5.86	261.05	8.09	30.49
B	12.25*	PF 4	101.23	99.94	1.29
0.03	0.03	54.23	576.49	94.28	49.32

B	12.125*	PF 1	95.63	95.63	0.00
0.00	0.00	0.51		6.88	
B	12.125*	PF 2	97.48	97.24	0.24
0.02	0.00	0.04	74.90	0.07	16.35
B	12.125*	PF 3	99.15	98.26	0.88
0.04	0.00	6.71	259.65	8.64	31.74
B	12.125*	PF 4	101.16	99.96	1.20
0.03	0.03	57.65	564.12	103.23	49.31

B	12	PF 1	95.63	95.63	0.00
0.00	0.00	0.51		7.07	
B	12	PF 2	97.46	97.22	0.24
0.02	0.01	0.05	74.87	0.08	16.41
B	12	PF 3	99.10	98.22	0.88
0.03	0.05	8.19	257.58	9.24	32.12
B	12	PF 4	101.12	99.76	1.36
0.03	0.02	58.30	569.06	97.64	48.20

B	11.8333*	PF 1	95.63	95.63	0.00
0.00	0.00	0.51		7.33	
B	11.8333*	PF 2	97.43	97.22	0.21
0.02	0.01	0.00	74.99	0.01	17.16
B	11.8333*	PF 3	99.01	98.32	0.70
0.03	0.03	4.78	261.94	8.28	33.29
B	11.8333*	PF 4	101.06	99.44	1.62
0.04	0.03	35.67	617.99	71.34	46.01

B	11.6666*	PF 1	95.63	95.63	0.00
0.00	0.00	0.51		6.44	

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B	11.6666*	PF 2	97.40	97.21	0.19
0.02	0.00	75.00		17.89	
B	11.6666*	PF 3	98.95	98.36	0.59
0.03	0.02 2.42	265.96	6.62	33.97	
B	11.6666*	PF 4	101.00	99.23	1.76
0.05	0.01 20.43	653.41	51.16	44.59	
B	11.5*	PF 1	95.62	95.62	0.00
0.00	0.00	0.51		6.59	
B	11.5*	PF 2	97.37	97.19	0.18
0.02	0.00	75.00		18.92	
B	11.5*	PF 3	98.90	98.39	0.51
0.03	0.02 1.09	268.59	5.32	34.14	
B	11.5*	PF 4	100.92	99.04	1.88
0.07	0.01 10.50	678.31	36.19	43.36	
B	11.3333*	PF 1	95.62	95.62	0.00
0.01	0.00	0.51		7.61	
B	11.3333*	PF 2	97.34	97.18	0.17
0.03	0.00	75.00		19.96	
B	11.3333*	PF 3	98.85	98.41	0.44
0.03	0.01 0.63	270.39	3.98	32.01	
B	11.3333*	PF 4	100.69	99.84	0.85
0.03	0.03 12.45	641.24	71.31	49.56	
B	11.1666*	PF 1	95.61	95.61	0.00
0.02	0.00	0.51		8.13	
B	11.1666*	PF 2	97.32	97.15	0.16
0.03	0.00	75.00		20.65	
B	11.1666*	PF 3	98.81	98.41	0.40
0.03	0.01 0.30	271.96	2.74	32.48	
B	11.1666*	PF 4	100.63	99.87	0.76
0.03	0.02 8.19	651.45	65.36	50.04	
B	11	PF 1	95.60	95.59	0.01
0.05	0.00	0.51		8.63	
B	11	PF 2	97.29	97.13	0.16
0.03	0.00	75.00		21.03	
B	11	PF 3	98.77	98.40	0.37
0.03	0.00 0.13	273.18	1.69	33.24	
B	11	PF 4	100.58	99.90	0.68
0.03	0.00 5.28	659.00	60.72	50.71	
B	10.8333*	PF 1	95.54	95.53	0.02
0.07	0.00	0.51		5.13	
B	10.8333*	PF 2	97.25	97.08	0.17
0.04	0.00	75.00		21.38	
B	10.8333*	PF 3	98.74	98.34	0.40
0.03	0.00 0.19	271.46	3.35	33.05	
B	10.8333*	PF 4	100.55	99.83	0.71
0.03	0.00 5.47	646.16	73.37	48.73	
B	10.6666*	PF 1	95.47	95.45	0.02
0.07	0.00	0.51		3.81	
B	10.6666*	PF 2	97.21	97.03	0.18
0.04	0.00	75.00		21.31	
B	10.6666*	PF 3	98.70	98.28	0.42

low_bigdom_abovefallsV2.rep						
0.03	0.00	0.26	268.94	5.80	32.64	
B		10.6666*	PF 4	100.51	99.76	0.75
0.03	0.00	5.63	631.79	87.58	46.88	
B		10.5*	PF 1	95.41	95.39	0.02
0.07	0.00		0.51		3.57	
B		10.5*	PF 2	97.17	96.98	0.19
0.04	0.00		75.00		20.63	
B		10.5*	PF 3	98.66	98.21	0.45
0.04	0.00	0.33	265.17	9.50	32.15	
B		10.5*	PF 4	100.48	99.70	0.78
0.03	0.00	5.60	614.98	104.41	45.07	
B		10.3333*	PF 1	95.34	95.32	0.02
0.07	0.00		0.51		3.49	
B		10.3333*	PF 2	97.13	96.93	0.20
0.04	0.00		75.00		19.82	
B		10.3333*	PF 3	98.62	98.15	0.47
0.04	0.00	0.38	260.36	14.26	31.54	
B		10.3333*	PF 4	100.44	99.63	0.81
0.04	0.00	5.31	595.93	123.76	43.29	
B		10.1666*	PF 1	95.27	95.25	0.02
0.05	0.00		0.51		3.47	
B		10.1666*	PF 2	97.09	96.88	0.20
0.04	0.00		75.00		18.89	
B		10.1666*	PF 3	98.57	98.09	0.49
0.04	0.00	0.39	254.39	20.22	30.76	
B		10.1666*	PF 4	100.40	99.55	0.85
0.04	0.00	4.39	575.29	145.32	41.54	
B		10	PF 1	95.22	95.21	0.01
			0.51		3.61	
B		10	PF 2	97.04	96.84	0.21
			75.00		17.85	
B		10	PF 3	98.53	98.03	0.50
		0.27	246.72	28.01	30.00	
B		10	PF 4	100.36	99.48	0.88
		2.47	552.19	170.35	39.80	

lower_bigdominguezV2.rep

HEC-RAS Version 4.1.0 Jan 2010
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

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X      X  XXXXXX      XXXX      XXXX      XX      XXXX
X      X  X          X      X      X      X      X
X      X  X          X      X      X      X      X
XXXXXXXX XXXX      X      XXX XXXX      XXXXXX      XXXX
X      X  X          X      X      X      X      X
X      X  X          X      X      X      X      X
X      X  XXXXXX      XXXX      X      X      X      XXXXX

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PROJECT DATA

Project Title: lower big dominguezV2
Project File : lower_bigdominguezV2.prj
Run Date and Time: 12/22/2009 4:40:00 PM

Project in English units

PLAN DATA

Plan Title: lower big dominguez plan
Plan File : x:\New Appropriations\2010 Recommendations\BLM Data\Dominguez Wilderness
Submittals to CWC\Hydrologic Modeling Files\HEC RAS Files\lower big
dominguez_final\lower_bigdominguezV2.p01

Geometry Title: lower_bigdomV2_geometry
Geometry File : x:\New Appropriations\2010 Recommendations\BLM
Data\Dominguez Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS
Files\lower big dominguez_final\lower_bigdominguezV2.g01

Flow Title : lower big dominguezV2 steady flow
Flow File : x:\New Appropriations\2010 Recommendations\BLM
Data\Dominguez Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS
Files\lower big dominguez_final\lower_bigdominguezV2.f01

Plan Summary Information:

Number of: Cross Sections	=	23	Multiple Openings	=	0
Culverts	=	0	Inline Structures	=	0
Bridges	=	0	Lateral Structures	=	0

Computational Information

Water surface calculation tolerance	=	0.01
Critical depth calculation tolerance	=	0.01
Maximum number of iterations	=	20
Maximum difference tolerance	=	0.3
Flow tolerance factor	=	0.001

Computation Options

Critical depth computed only where necessary
Conveyance Calculation Method: At breaks in n values only
Friction Slope Method: Average Conveyance
Computational Flow Regime: Mixed Flow

lower_bigdominguezV2.rep

FLOW DATA

Flow Title: lower big dominguezV2 steady flow
Flow File : x:\New Appropriations\2010 Recommendations\BLM Data\Dominguez Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS Files\lower big dominguez_final\lower_bigdominguezV2.f01

Flow Data (cfs)

River	Reach	RS	PF 1	PF 2
PF 3	PF 4			
Lower Big DomingA		15	.771	75
250	725			

Boundary Conditions

River	Reach	Profile	Upstream
Downstream			
Lower Big DomingA		PF 1	Normal S = 0.013
Normal S = 0.013			

GEOMETRY DATA

Geometry Title: lower_bigdomV2_geometry
Geometry File : x:\New Appropriations\2010 Recommendations\BLM Data\Dominguez Wilderness Submittals to CWC\Hydrologic Modeling Files\HEC RAS Files\lower big dominguez_final\lower_bigdominguezV2.g01

CROSS SECTION

RIVER: Lower Big Doming
REACH: A RS: 15

INPUT

Description: cross section A

Station	Elevation	Data	num=	17					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
04815.367	14.9954809.134	32.5264804.799	41.6094801.841	49.0924801.211					
50.1164800.841	51.0124800.472	52.3914800.374	53.3794800.412	54.9334800.631					
56.8164800.839	59.5334801.477	60.09 4801.68	63.1034802.794	72.3774804.279					
78.1354804.945	85.84811.773								

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.08	41.609	.03
		60.09	.2

Bank	Sta: Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	41.609	60.09		6.82 3.94	2.53	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

		Element	Left OB	Channel
E.G. Elev (ft)	4800.69			
Right OB				
Vel Head (ft)	0.01	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.68	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)	4800.55	Flow Area (sq ft)		0.93
E.G. Slope (ft/ft)	0.002567	Area (sq ft)		0.93
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.83	Top Width (ft)		4.83
Vel Total (ft/s)	0.83	Avg. Vel. (ft/s)		0.83
Max Chl Dpth (ft)	0.30	Hydr. Depth (ft)		0.19
Conv. Total (cfs)	15.2	Conv. (cfs)		15.2
Length Wtd. (ft)	3.94	Wetted Per. (ft)		4.89
Min Ch El (ft)	4800.37	Shear (lb/sq ft)		0.03
Alpha	1.00	Stream Power (lb/ft s)		0.03
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

CROSS SECTION OUTPUT Profile #PF 2

		Element	Left OB	Channel
E.G. Elev (ft)	4802.31			
Right OB				
Vel Head (ft)	0.33	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4801.97	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)	4801.89	Flow Area (sq ft)	0.03	16.21
0.12				
E.G. Slope (ft/ft)	0.010617	Area (sq ft)	0.03	16.21
0.12				
Q Total (cfs)	75.00	Flow (cfs)	0.01	74.97
0.02				
Top Width (ft)	19.68	Top Width (ft)	0.40	18.48
0.79				
Vel Total (ft/s)	4.59	Avg. Vel. (ft/s)	0.30	4.63
0.20				
Max Chl Dpth (ft)	1.60	Hydr. Depth (ft)	0.07	0.88
0.15				
Conv. Total (cfs)	727.9	Conv. (cfs)	0.1	727.6
0.2				
Length Wtd. (ft)	3.94	Wetted Per. (ft)	0.43	18.79
0.84				
Min Ch El (ft)	4800.37	Shear (lb/sq ft)	0.04	0.57
0.09				

Alpha	1.02	lower_bigdominguezV2.rep	Stream Power (lb/ft s)	0.01	2.64
0.02					
Frctn Loss (ft)	0.04		Cum Volume (acre-ft)	0.00	0.04
0.00					
C & E Loss (ft)	0.01		Cum SA (acres)	0.00	0.05
0.00					

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.75	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.97	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4802.79	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)	4802.87	Flow Area (sq ft)	1.37	31.22
1.65				
E.G. Slope (ft/ft)	0.013010	Area (sq ft)	1.37	31.22
1.65				
Q Total (cfs)	250.00	Flow (cfs)	1.70	247.40
0.90				
Top Width (ft)	24.37	Top Width (ft)	2.90	18.48
2.99				
Vel Total (ft/s)	7.30	Avg. Vel. (ft/s)	1.24	7.93
0.55				
Max Chl Dpth (ft)	2.41	Hydr. Depth (ft)	0.47	1.69
0.55				
Conv. Total (cfs)	2191.8	Conv. (cfs)	14.9	2169.0
7.9				
Length Wtd. (ft)	3.95	Wetted Per. (ft)	3.05	18.79
3.19				
Min Ch El (ft)	4800.37	Shear (lb/sq ft)	0.36	1.35
0.42				
Alpha	1.17	Stream Power (lb/ft s)	0.45	10.70
0.23				
Frctn Loss (ft)		Cum Volume (acre-ft)	0.01	0.09
0.00				
C & E Loss (ft)		Cum SA (acres)	0.01	0.05
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.37	Element	Left OB	Channel
Right OB				
Vel Head (ft)	2.13	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4804.23	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)	4804.68	Flow Area (sq ft)	8.79	57.98
12.48				
E.G. Slope (ft/ft)	0.012999	Area (sq ft)	8.79	57.98
12.48				
Q Total (cfs)	725.00	Flow (cfs)	20.27	694.06
10.67				
Top Width (ft)	37.83	Top Width (ft)	7.35	18.48
12.00				
Vel Total (ft/s)	9.15	Avg. Vel. (ft/s)	2.31	11.97

lower_bigdominguezV2.rep

0.85				
Max Chl Dpth (ft)	3.86	Hydr. Depth (ft)	1.20	3.14
1.04				
Conv. Total (cfs)	6359.0	Conv. (cfs)	177.8	6087.7
93.5				
Length Wtd. (ft)	4.01	Wetted Per. (ft)	7.72	18.79
12.31				
Min Ch El (ft)	4800.37	Shear (lb/sq ft)	0.92	2.50
0.82				
Alpha	1.64	Stream Power (lb/ft s)	2.13	29.98
0.70				
Frctn Loss (ft)		Cum Volume (acre-ft)	0.05	0.20
0.05				
C & E Loss (ft)		Cum SA (acres)	0.03	0.05
0.04				

CROSS SECTION

RIVER: Lower Big Doming
REACH: A

RS: 14.75*

INPUT

Description:

Station Elevation Data		num= 33							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4814.58	8.88	4810.64	13.84	4808.71	22.1	4806.63	30.02	4804.58
38.4	4801.88	46.21	4801.22	46.39	4801.2	47.49	4800.88	48.2	4800.64
48.44	4800.55	49.03	4800.48	49.92	4800.35	50.98	4800.4	51.01	4800.41
51.29	4800.51	51.7	4800.5	52.67	4800.61	52.74	4800.64	52.84	4800.69
53.07	4800.66	54.07	4800.77	54.83	4800.86	55.14	4800.92	56.98	4801.27
57.85	4801.49	58.47	4801.71	61.46	4802.77	63.98	4803.27	70.67	4804.32
73.46	4804.67	76.38	4805.42	83.99	4811.82				

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
0	.08	38.4	.03	58.47	.2

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
38.4	58.47	6.82	3.94	2.53	.1	.3	

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.68	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.01	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.66	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)		Flow Area (sq ft)		0.87
E.G. Slope (ft/ft)	0.003101	Area (sq ft)		0.87
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.71	Top Width (ft)		4.71
Vel Total (ft/s)	0.89	Avg. Vel. (ft/s)		0.89
Max Chl Dpth (ft)	0.31	Hydr. Depth (ft)		0.18

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Conv. Total (cfs)	13.8	Conv. (cfs)	13.8
Length Wtd. (ft)	3.94	Wetted Per. (ft)	4.79
Min Ch El (ft)	4800.35	Shear (lb/sq ft)	0.04
Alpha	1.00	Stream Power (lb/ft s)	0.03
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4802.25	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.31	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4801.95	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)	4801.85	Flow Area (sq ft)	0.01	16.86
0.08				
E.G. Slope (ft/ft)	0.010375	Area (sq ft)	0.01	16.86
0.08				
Q Total (cfs)	75.00	Flow (cfs)	0.00	74.99
0.01				
Top Width (ft)	20.94	Top Width (ft)	0.20	20.07
0.67				
Vel Total (ft/s)	4.43	Avg. Vel. (ft/s)	0.19	4.45
0.17				
Max Chl Dpth (ft)	1.60	Hydr. Depth (ft)	0.03	0.84
0.12				
Conv. Total (cfs)	736.3	Conv. (cfs)	0.0	736.2
0.1				
Length Wtd. (ft)	3.94	Wetted Per. (ft)	0.21	20.38
0.71				
Min Ch El (ft)	4800.35	Shear (lb/sq ft)	0.02	0.54
0.07				
Alpha	1.01	Stream Power (lb/ft s)	0.00	2.38
0.01				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.04
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.68	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.13	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4802.56	Reach Len. (ft)	6.82	3.94
2.53				

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Crit W.S. (ft)	4802.79	Flow Area (sq ft)	0.71	29.12
1.01				
E.G. Slope (ft/ft)	0.018452	Area (sq ft)	0.71	29.12
1.01				
Q Total (cfs)	250.00	Flow (cfs)	0.84	248.60
0.55				
Top Width (ft)	24.56	Top Width (ft)	2.10	20.07
2.39				
Vel Total (ft/s)	8.11	Avg. Vel. (ft/s)	1.19	8.54
0.55				
Max Chl Dpth (ft)	2.21	Hydr. Depth (ft)	0.34	1.45
0.42				
Conv. Total (cfs)	1840.4	Conv. (cfs)	6.2	1830.2
4.1				
Length Wtd. (ft)	3.94	Wetted Per. (ft)	2.21	20.38
2.53				
Min Ch El (ft)	4800.35	Shear (lb/sq ft)	0.37	1.65
0.46				
Alpha	1.10	Stream Power (lb/ft s)	0.44	14.06
0.25				
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)	0.01	0.09
0.00				
C & E Loss (ft)	0.02	Cum SA (acres)	0.01	0.05
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4806.06	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.32	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4804.74	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)	4804.50	Flow Area (sq ft)	12.71	72.97
18.84				
E.G. Slope (ft/ft)	0.006627	Area (sq ft)	12.71	72.97
18.84				
Q Total (cfs)	725.00	Flow (cfs)	23.43	688.65
12.92				
Top Width (ft)	44.34	Top Width (ft)	9.00	20.07
15.27				
Vel Total (ft/s)	6.94	Avg. Vel. (ft/s)	1.84	9.44
0.69				
Max Chl Dpth (ft)	4.39	Hydr. Depth (ft)	1.41	3.64
1.23				
Conv. Total (cfs)	8905.8	Conv. (cfs)	287.9	8459.3
158.7				
Length Wtd. (ft)	4.01	Wetted Per. (ft)	9.45	20.38
15.61				
Min Ch El (ft)	4800.35	Shear (lb/sq ft)	0.56	1.48
0.50				
Alpha	1.76	Stream Power (lb/ft s)	1.03	13.98
0.34				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.05	0.19
0.05				
C & E Loss (ft)	0.08	Cum SA (acres)	0.03	0.05
0.03				

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION

RIVER: Lower Big Doming

REACH: A

RS: 14.5*

INPUT

Description:

Station Elevation Data		num= 33		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4813.8	8.13	4809.91	12.68	4808.29	20.25	4806.34	27.51	4804.37
35.19	4801.92	43.5	4801.21	43.69	4801.19	44.86	4800.91	45.62	4800.71
45.88	4800.63	46.5	4800.53	47.44	4800.33	48.61	4800.39	48.65	4800.42
48.95	4800.57	49.4	4800.5	50.47	4800.59	50.55	4800.66	50.66	4800.75
50.92	4800.65	52.01	4800.78	52.85	4800.88	53.18	4800.94	55.21	4801.24
56.17	4801.51	56.85	4801.74	59.82	4802.75	62.32	4803.33	68.95	4804.37
71.73	4804.74	74.63	4805.89	82.18	4811.86				

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.08	35.19	.03	56.85	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	35.19	56.85		6.82 3.94	2.53	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.66	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.01	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.65	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)		Flow Area (sq ft)		0.80
E.G. Slope (ft/ft)	0.004213	Area (sq ft)		0.80
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.71	Top Width (ft)		4.71
Vel Total (ft/s)	0.97	Avg. Vel. (ft/s)		0.97
Max Chl Dpth (ft)	0.32	Hydr. Depth (ft)		0.17
Conv. Total (cfs)	11.9	Conv. (cfs)		11.9
Length Wtd. (ft)	3.94	Wetted Per. (ft)		4.82
Min Ch El (ft)	4800.33	Shear (lb/sq ft)		0.04
Alpha	1.00	Stream Power (lb/ft s)		0.04
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

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CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4802.21	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.29	Wt. n-Val.		0.030
0.200				
W.S. Elev (ft)	4801.91	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)	4801.81	Flow Area (sq ft)		17.23
0.04				
E.G. Slope (ft/ft)	0.010657	Area (sq ft)		17.23
0.04				
Q Total (cfs)	75.00	Flow (cfs)		74.99
0.01				
Top Width (ft)	22.05	Top Width (ft)		21.55
0.50				
Vel Total (ft/s)	4.34	Avg. Vel. (ft/s)		4.35
0.14				
Max Chl Dpth (ft)	1.58	Hydr. Depth (ft)		0.80
0.08				
Conv. Total (cfs)	726.5	Conv. (cfs)		726.5
0.1				
Length Wtd. (ft)	3.94	Wetted Per. (ft)		21.93
0.53				
Min Ch El (ft)	4800.33	Shear (lb/sq ft)		0.52
0.05				
Alpha	1.00	Stream Power (lb/ft s)		2.28
0.01				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)		0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)		0.04
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.60	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.14	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4802.45	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)	4802.72	Flow Area (sq ft)	0.45	29.01
0.75				
E.G. Slope (ft/ft)	0.020846	Area (sq ft)	0.45	29.01
0.75				
Q Total (cfs)	250.00	Flow (cfs)	0.48	249.13
0.39				
Top Width (ft)	25.43	Top Width (ft)	1.67	21.66
2.10				
Vel Total (ft/s)	8.28	Avg. Vel. (ft/s)	1.08	8.59
0.52				
Max Chl Dpth (ft)	2.12	Hydr. Depth (ft)	0.27	1.34
0.36				
Conv. Total (cfs)	1731.5	Conv. (cfs)	3.3	1725.5
2.7				
Length Wtd. (ft)	3.94	Wetted Per. (ft)	1.76	22.04
2.22				
Min Ch El (ft)	4800.33	Shear (lb/sq ft)	0.33	1.71

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0.44				
Alpha	1.07	Stream Power (lb/ft s)	0.36	14.71
0.23				
Frctn Loss (ft)	0.08	Cum Volume (acre-ft)	0.01	0.08
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.04
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.95	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.04	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4804.91	Reach Len. (ft)	6.82	3.94
2.53				
Crit W.S. (ft)		Flow Area (sq ft)	14.09	82.20
20.63				
E.G. Slope (ft/ft)	0.004954	Area (sq ft)	14.09	82.20
20.63				
Q Total (cfs)	725.00	Flow (cfs)	22.96	689.08
12.96				
Top Width (ft)	46.64	Top Width (ft)	9.67	21.66
15.31				
Vel Total (ft/s)	6.20	Avg. Vel. (ft/s)	1.63	8.38
0.63				
Max Chl Dpth (ft)	4.58	Hydr. Depth (ft)	1.46	3.79
1.35				
Conv. Total (cfs)	10300.8	Conv. (cfs)	326.2	9790.4
184.1				
Length Wtd. (ft)	4.01	Wetted Per. (ft)	10.12	22.04
15.68				
Min Ch El (ft)	4800.33	Shear (lb/sq ft)	0.43	1.15
0.41				
Alpha	1.74	Stream Power (lb/ft s)	0.70	9.67
0.26				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.05	0.19
0.05				
C & E Loss (ft)	0.05	Cum SA (acres)	0.03	0.04
0.03				

CROSS SECTION

RIVER: Lower Big Doming

REACH: A

RS: 14.25*

INPUT

Description:

Station	Elevation	Data	num=	33	Station	Elevation	Station	Elevation	Station	Elevation
0	4813.02				11.53	4807.87	18.41	4806.05	25	4804.15
31.99	4801.96	7.39	4809.19		41	4801.18	42.23	4800.94	43.03	4800.78
43.31	4800.71	40.79	4801.21		44.97	4800.32	46.24	4800.39	46.29	4800.42
46.62	4800.64	43.97	4800.57		48.27	4800.57	48.36	4800.67	48.48	4800.8
48.76	4800.64	47.11	4800.5		50.87	4800.9	51.23	4800.95	53.44	4801.22
54.49	4801.53	49.96	4800.79		58.18	4802.72	60.66	4803.4	67.24	4804.41
70	4804.81	55.23	4801.76		80.37	4811.9				
		72.87	4806.36							

lower_bigdominguezV2.rep

Manning's n Values
 Sta n Val Sta n Val
 0 .08 31.99 .03 55.23 .2

Bank Sta: Left Right Lengths: Left Channel Right Coeff Contr. Expan.
 31.99 55.23 6.83 3.94 2.53 .1 .3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.64	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.02	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.62	Reach Len. (ft)	6.83	3.94
2.53				
Crit W.S. (ft)		Flow Area (sq ft)		0.68
E.G. Slope (ft/ft)	0.006634	Area (sq ft)		0.68
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.48	Top Width (ft)		4.48
Vel Total (ft/s)	1.13	Avg. Vel. (ft/s)		1.13
Max Chl Dpth (ft)	0.30	Hydr. Depth (ft)		0.15
Conv. Total (cfs)	9.5	Conv. (cfs)		9.5
Length Wtd. (ft)	3.94	Wetted Per. (ft)		4.63
Min Ch El (ft)	4800.32	Shear (lb/sq ft)		0.06
Alpha	1.00	Stream Power (lb/ft s)		0.07
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

Warning: Divided flow computed for this cross-section.

Warning: The conveyance ratio (upstream conveyance divided by downstream conveyance) is less than 0.7 or greater than 1.4.

This may indicate the need for additional cross sections.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4802.16	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.30	Wt. n-Val.		0.030
0.200				
W.S. Elev (ft)	4801.86	Reach Len. (ft)	6.83	3.94
2.53				
Crit W.S. (ft)	4801.78	Flow Area (sq ft)		17.17
0.02				
E.G. Slope (ft/ft)	0.011206	Area (sq ft)		17.17
0.02				
Q Total (cfs)	75.00	Flow (cfs)		75.00

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0.00			
Top Width (ft)	22.42	Top Width (ft)	22.10
0.32			
Vel Total (ft/s)	4.36	Avg. Vel. (ft/s)	4.37
0.11			
Max Chl Dpth (ft)	1.54	Hydr. Depth (ft)	0.78
0.05			
Conv. Total (cfs)	708.5	Conv. (cfs)	708.5
0.0			
Length Wtd. (ft)	3.94	Wetted Per. (ft)	22.58
0.33			
Min Ch El (ft)	4800.32	Shear (lb/sq ft)	0.53
0.03			
Alpha	1.00	Stream Power (lb/ft s)	2.32
0.00			
Frctn Loss (ft)	0.05	Cum Volume (acre-ft)	0.03
0.00			
C & E Loss (ft)	0.01	Cum SA (acres)	0.04
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.50	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.10	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4802.40	Reach Len. (ft)	6.83	3.94
2.53				
Crit W.S. (ft)	4802.65	Flow Area (sq ft)	0.31	29.63
0.63				
E.G. Slope (ft/ft)	0.021468	Area (sq ft)	0.31	29.63
0.63				
Q Total (cfs)	250.00	Flow (cfs)	0.30	249.39
0.31				
Top Width (ft)	26.62	Top Width (ft)	1.41	23.24
1.97				
Vel Total (ft/s)	8.18	Avg. Vel. (ft/s)	0.96	8.42
0.49				
Max Chl Dpth (ft)	2.08	Hydr. Depth (ft)	0.22	1.28
0.32				
Conv. Total (cfs)	1706.3	Conv. (cfs)	2.0	1702.1
2.1				
Length Wtd. (ft)	3.94	Wetted Per. (ft)	1.48	23.73
2.07				
Min Ch El (ft)	4800.32	Shear (lb/sq ft)	0.28	1.67
0.41				
Alpha	1.06	Stream Power (lb/ft s)	0.27	14.09
0.20				
Frctn Loss (ft)	0.08	Cum Volume (acre-ft)	0.00	0.08
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.01	0.04
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.88	Element	Left OB	Channel
Right OB				

		lower_bigdominguezV2.rep		
Vel Head (ft)	0.86	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4805.01	Reach Len. (ft)	6.83	3.94
2.53				
Crit W.S. (ft)		Flow Area (sq ft)	14.99	90.34
21.47				
E.G. Slope (ft/ft)	0.004000	Area (sq ft)	14.99	90.34
21.47				
Q Total (cfs)	725.00	Flow (cfs)	22.40	690.09
12.51				
Top Width (ft)	48.37	Top Width (ft)	9.99	23.24
15.15				
Vel Total (ft/s)	5.72	Avg. Vel. (ft/s)	1.49	7.64
0.58				
Max Chl Dpth (ft)	4.69	Hydr. Depth (ft)	1.50	3.89
1.42				
Conv. Total (cfs)	11463.3	Conv. (cfs)	354.1	10911.3
197.9				
Length Wtd. (ft)	4.00	Wetted Per. (ft)	10.44	23.73
15.55				
Min Ch El (ft)	4800.32	Shear (lb/sq ft)	0.36	0.95
0.34				
Alpha	1.70	Stream Power (lb/ft s)	0.54	7.26
0.20				
Frctn Loss (ft)	0.01	Cum Volume (acre-ft)	0.05	0.18
0.05				
C & E Loss (ft)	0.04	Cum SA (acres)	0.03	0.04
0.03				

CROSS SECTION

RIVER: Lower Big Doming
 REACH: A RS: 14

INPUT

Description: cross section B - just ds of upper most x sec

Station Elevation Data		num=	21
Sta	Elev	Sta	Elev
04812.234	6.6524808.458	16.5614805.757	28.7784802.002
40.4514800.854	41.4384800.618	42.4944800.296	43.8714800.379
44.814800.497	46.074800.556	46.2944800.851	46.5984800.638
49.277 4800.97	51.6714801.192	53.61 4801.79	59.0014803.466
78.5564811.948			68.2634804.875

Manning's n Values		num=	3
Sta	n Val	Sta	n Val
0	.08	28.778	.03
		53.61	.2

Bank Sta: Left	Right	Lengths: Left Channel	Right	Coeff Contr.	Expan.
28.778	53.61	5.18	4.9	5.44	.1 .3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.60	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.57	Reach Len. (ft)	5.18	4.90
5.44				

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Crit W.S. (ft)		Flow Area (sq ft)	0.52
E.G. Slope (ft/ft)	0.013877	Area (sq ft)	0.52
Q Total (cfs)	0.77	Flow (cfs)	0.77
Top Width (ft)	3.97	Top Width (ft)	3.97
Vel Total (ft/s)	1.48	Avg. Vel. (ft/s)	1.48
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)	0.13
Conv. Total (cfs)	6.5	Conv. (cfs)	6.5
Length Wtd. (ft)	4.90	Wetted Per. (ft)	4.10
Min Ch El (ft)	4800.30	Shear (lb/sq ft)	0.11
Alpha	1.00	Stream Power (lb/ft s)	0.16
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4802.11	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.35	Wt. n-Val.		0.030
W.S. Elev (ft)	4801.76	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.75	Flow Area (sq ft)		15.82
E.G. Slope (ft/ft)	0.014693	Area (sq ft)		15.82
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	21.93	Top Width (ft)		21.93
Vel Total (ft/s)	4.74	Avg. Vel. (ft/s)		4.74
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)		0.72
Conv. Total (cfs)	618.7	Conv. (cfs)		618.7
Length Wtd. (ft)	4.90	Wetted Per. (ft)		22.53
Min Ch El (ft)	4800.30	Shear (lb/sq ft)		0.64
Alpha	1.00	Stream Power (lb/ft s)		3.05
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)		0.04
0.00				

lower_bigdominguezV2.rep

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.40	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.02	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4802.38	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4802.59	Flow Area (sq ft)	0.23	30.79
0.55				
E.G. Slope (ft/ft)	0.020775	Area (sq ft)	0.23	30.79
0.55				
Q Total (cfs)	250.00	Flow (cfs)	0.20	249.55
0.25				
Top Width (ft)	27.94	Top Width (ft)	1.22	24.83
1.89				
Vel Total (ft/s)	7.92	Avg. Vel. (ft/s)	0.85	8.11
0.46				
Max Chl Dpth (ft)	2.08	Hydr. Depth (ft)	0.19	1.24
0.29				
Conv. Total (cfs)	1734.5	Conv. (cfs)	1.4	1731.4
1.8				
Length Wtd. (ft)	4.90	Wetted Per. (ft)	1.28	25.45
1.98				
Min Ch El (ft)	4800.30	Shear (lb/sq ft)	0.23	1.57
0.36				
Alpha	1.05	Stream Power (lb/ft s)	0.20	12.72
0.17				
Frctn Loss (ft)	0.08	Cum Volume (acre-ft)	0.00	0.08
0.00				
C & E Loss (ft)	0.02	Cum SA (acres)	0.01	0.04
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.83	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.74	Wt. n-Val.	0.080	0.030
0.200				
W.S. Elev (ft)	4805.09	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	15.48	98.07
21.78				
E.G. Slope (ft/ft)	0.003356	Area (sq ft)	15.48	98.07
21.78				
Q Total (cfs)	725.00	Flow (cfs)	21.58	691.60
11.81				
Top Width (ft)	49.83	Top Width (ft)	10.04	24.83
14.96				
Vel Total (ft/s)	5.36	Avg. Vel. (ft/s)	1.39	7.05
0.54				
Max Chl Dpth (ft)	4.79	Hydr. Depth (ft)	1.54	3.95
1.46				
Conv. Total (cfs)	12515.1	Conv. (cfs)	372.5	11938.6
204.0				
Length Wtd. (ft)	4.92	Wetted Per. (ft)	10.50	25.45
15.39				

Min Ch El (ft)	4800.30	lower_bigdominguezV2.rep		
0.30		Shear (lb/sq ft)	0.31	0.81
Alpha	1.66	Stream Power (lb/ft s)	0.43	5.69
0.16				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.05	0.17
0.05				
C & E Loss (ft)	0.00	Cum SA (acres)	0.03	0.04
0.03				

CROSS SECTION

RIVER: Lower Big Doming
REACH: A RS: 13.8333*

INPUT

Description:

Station Elevation Data	num=	34							
Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev	Sta Elev
0 4812.21	6.68 4808.36	8.84 4807.72	16.64 4805.65	17.11 4805.51					
24.68 4803.21	28.91 4801.92	34.18 4801.42	35.87 4801.27	38.02 4801.09					
38.47 4801.03	38.96 4800.97	39.69 4800.86	40.35 4800.76	41.31 4800.54					
42.35 4800.23	43.69 4800.31	44.09 4800.61	44.6 4800.42	45.83 4800.48					
46.04 4800.76	46.34 4800.56	46.66 4800.6	47.6 4800.72	48.48 4800.83					
48.95 4800.89	51.27 4801.13	51.38 4801.16	53.16 4801.72	55.86 4802.59					
58.64 4803.43	65.44 4804.5	68.05 4804.92	78.51 4811.8						

Manning's n Values	num=	3			
Sta n Val	Sta n Val	Sta n Val			
0 .078	28.91 .03	53.16 .2			

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
28.91	53.16	5.18	4.9	5.44		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.53	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.50	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.52
E.G. Slope (ft/ft)	0.014351	Area (sq ft)		0.52
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	3.94	Top Width (ft)		3.94
Vel Total (ft/s)	1.50	Avg. Vel. (ft/s)		1.50
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.13
Conv. Total (cfs)	6.4	Conv. (cfs)		6.4
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.07
Min Ch El (ft)	4800.23	Shear (lb/sq ft)		0.11

Alpha	1.00	lower_bigdominguezV2.rep Stream Power (lb/ft s)	0.17
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4802.04	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.35	Wt. n-Val.		0.030
W.S. Elev (ft)	4801.69	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.67	Flow Area (sq ft)		15.85
E.G. Slope (ft/ft)	0.014393	Area (sq ft)		15.85
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	21.74	Top Width (ft)		21.74
Vel Total (ft/s)	4.73	Avg. Vel. (ft/s)		4.73
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)		0.73
Conv. Total (cfs)	625.2	Conv. (cfs)		625.2
Length Wtd. (ft)	4.90	Wetted Per. (ft)		22.31
Min Ch El (ft)	4800.23	Shear (lb/sq ft)		0.64
Alpha	1.00	Stream Power (lb/ft s)		3.02
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)		0.04
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.30	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.58	Wt. n-Val.	0.078	0.030
0.200				
W.S. Elev (ft)	4802.72	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4802.53	Flow Area (sq ft)	1.06	40.61
1.56				
E.G. Slope (ft/ft)	0.007925	Area (sq ft)	1.06	40.61
1.56				
Q Total (cfs)	250.00	Flow (cfs)	0.95	248.43
0.63				
Top Width (ft)	30.02	Top Width (ft)	2.63	24.25

lower_bigdominguezV2.rep

3.14				
Vel Total (ft/s)	5.78	Avg. Vel. (ft/s)	0.90	6.12
0.40				
Max Chl Dpth (ft)	2.49	Hydr. Depth (ft)	0.40	1.67
0.50				
Conv. Total (cfs)	2808.4	Conv. (cfs)	10.6	2790.7
7.1				
Length Wtd. (ft)	4.90	Wetted Per. (ft)	2.75	24.84
3.30				
Min Ch El (ft)	4800.23	Shear (lb/sq ft)	0.19	0.81
0.23				
Alpha	1.11	Stream Power (lb/ft s)	0.17	4.95
0.09				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.08
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.04
0.01				

Note: Hydraulic jump has occurred between this cross section and the previous upstream section.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.80	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.74	Wt. n-Val.	0.078	0.030
0.200				
W.S. Elev (ft)	4805.06	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	16.17	97.24
21.89				
E.G. Slope (ft/ft)	0.003326	Area (sq ft)	16.17	97.24
21.89				
Q Total (cfs)	725.00	Flow (cfs)	23.27	689.93
11.80				
Top Width (ft)	49.66	Top Width (ft)	10.31	24.25
15.10				
Vel Total (ft/s)	5.36	Avg. Vel. (ft/s)	1.44	7.10
0.54				
Max Chl Dpth (ft)	4.83	Hydr. Depth (ft)	1.57	4.01
1.45				
Conv. Total (cfs)	12570.3	Conv. (cfs)	403.5	11962.3
204.5				
Length Wtd. (ft)	4.92	Wetted Per. (ft)	10.78	24.84
15.52				
Min Ch El (ft)	4800.23	Shear (lb/sq ft)	0.31	0.81
0.29				
Alpha	1.67	Stream Power (lb/ft s)	0.45	5.77
0.16				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.04	0.16
0.04				
C & E Loss (ft)	0.00	Cum SA (acres)	0.03	0.04
0.03				

CROSS SECTION

RIVER: Lower Big Doming

lower_bigdominguezV2.rep
RS: 13.6666*

REACH: A

INPUT

Description:

Station	Elevation	Data	num=	34					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4812.18	6.71	4808.27	8.88	4807.57	16.71	4805.54	17.19	4805.4
24.79	4803.12	29.04	4801.84	34.2	4801.31	35.86	4801.16	37.96	4800.98
38.41	4800.92	38.89	4800.88	39.6	4800.76	40.24	4800.67	41.19	4800.45
42.2	4800.16	43.5	4800.24	43.89	4800.53	44.39	4800.35	45.58	4800.41
45.79	4800.67	46.08	4800.48	46.4	4800.52	47.31	4800.64	48.16	4800.75
48.61	4800.81	50.88	4801.07	50.98	4801.1	52.71	4801.65	55.46	4802.57
58.27	4803.4	65.18	4804.51	67.83	4804.96	78.45	4811.65		

Manning's n	Values	num=	3		
Sta	n Val	Sta	n Val	Sta	n Val
0	.077	29.04	.03	52.71	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.	
	29.04	52.71		5.18	4.9	5.44	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.47	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.43	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.53
E.G. Slope (ft/ft)	0.013366	Area (sq ft)		0.53
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	3.94	Top Width (ft)		3.94
Vel Total (ft/s)	1.46	Avg. Vel. (ft/s)		1.46
Max Chl Dpth (ft)	0.27	Hydr. Depth (ft)		0.13
Conv. Total (cfs)	6.7	Conv. (cfs)		6.7
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.07
Min Ch El (ft)	4800.16	Shear (lb/sq ft)		0.11
Alpha	1.00	Stream Power (lb/ft s)		0.16
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.97	Element	Left OB	Channel
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lower_bigdominguezV2.rep

Right OB			
Vel Head (ft)	0.35	Wt. n-Val.	0.030
W.S. Elev (ft)	4801.62	Reach Len. (ft)	5.18 4.90
5.44			
Crit W.S. (ft)	4801.60	Flow Area (sq ft)	15.77
E.G. Slope (ft/ft)	0.014351	Area (sq ft)	15.77
Q Total (cfs)	75.00	Flow (cfs)	75.00
Top Width (ft)	21.41	Top Width (ft)	21.41
Vel Total (ft/s)	4.76	Avg. Vel. (ft/s)	4.76
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)	0.74
Conv. Total (cfs)	626.1	Conv. (cfs)	626.1
Length Wtd. (ft)	4.90	Wetted Per. (ft)	21.96
Min Ch El (ft)	4800.16	Shear (lb/sq ft)	0.64
Alpha	1.00	Stream Power (lb/ft s)	3.06
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.03
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.03
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.26	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.57	Wt. n-Val.	0.077	0.030
0.200				
W.S. Elev (ft)	4802.68	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	1.17	40.69
1.59				
E.G. Slope (ft/ft)	0.007609	Area (sq ft)	1.17	40.69
1.59				
Q Total (cfs)	250.00	Flow (cfs)	1.08	248.29
0.64				
Top Width (ft)	29.59	Top Width (ft)	2.79	23.67
3.13				
Vel Total (ft/s)	5.75	Avg. Vel. (ft/s)	0.92	6.10
0.40				
Max Chl Dpth (ft)	2.52	Hydr. Depth (ft)	0.42	1.72
0.51				
Conv. Total (cfs)	2866.0	Conv. (cfs)	12.4	2846.4
7.3				
Length Wtd. (ft)	4.90	Wetted Per. (ft)	2.92	24.24
3.29				
Min Ch El (ft)	4800.16	Shear (lb/sq ft)	0.19	0.80
0.23				
Alpha	1.12	Stream Power (lb/ft s)	0.18	4.87
0.09				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.07
0.00				

C & E Loss (ft)	lower_bigdominguezV2.rep		
0.01	0.00 Cum SA (acres)	0.01	0.03

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.78	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.76	Wt. n-Val.	0.077	0.030
0.200				
W.S. Elev (ft)	4805.02	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	16.86	96.15
21.91				
E.G. Slope (ft/ft)	0.003327	Area (sq ft)	16.86	96.15
21.91				
Q Total (cfs)	725.00	Flow (cfs)	24.84	688.40
11.75				
Top Width (ft)	49.49	Top Width (ft)	10.60	23.67
15.22				
Vel Total (ft/s)	5.37	Avg. Vel. (ft/s)	1.47	7.16
0.54				
Max Chl Dpth (ft)	4.86	Hydr. Depth (ft)	1.59	4.06
1.44				
Conv. Total (cfs)	12569.1	Conv. (cfs)	430.7	11934.6
203.8				
Length Wtd. (ft)	4.92	Wetted Per. (ft)	11.07	24.24
15.64				
Min Ch El (ft)	4800.16	Shear (lb/sq ft)	0.32	0.82
0.29				
Alpha	1.69	Stream Power (lb/ft s)	0.47	5.90
0.16				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.04	0.15
0.04				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.03
0.03				

CROSS SECTION

RIVER: Lower Big Doming
 REACH: A RS: 13.5*

INPUT

Description:

Station	Elevation	Data	num=	34					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4812.15	6.74	4808.17	8.92	4807.41	16.79	4805.43	17.27	4805.29
24.9	4803.03	29.18	4801.77	34.22	4801.19	35.85	4801.04	37.91	4800.88
38.34	4800.82	38.81	4800.8	39.5	4800.66	40.14	4800.58	41.06	4800.37
42.06	4800.1	43.32	4800.17	43.7	4800.44	44.18	4800.28	45.34	4800.33
45.54	4800.58	45.82	4800.41	46.13	4800.44	47.01	4800.56	47.84	4800.67
48.28	4800.73	50.48	4801	50.58	4801.03	52.26	4801.58	55.05	4802.54
57.91	4803.37	64.92	4804.52	67.62	4805	78.4	4811.51		

Manning's n Values	num=	3	
Sta	n Val	Sta	n Val
0	.075	29.18	.03
		52.26	.2

lower_bigdominguezV2.rep

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
29.18	52.26	5.18	4.9	5.44		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.40	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.04	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.36	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.51
E.G. Slope (ft/ft)	0.014640	Area (sq ft)		0.51
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	3.92	Top Width (ft)		3.92
Vel Total (ft/s)	1.51	Avg. Vel. (ft/s)		1.51
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.13
Conv. Total (cfs)	6.4	Conv. (cfs)		6.4
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.05
Min Ch El (ft)	4800.10	Shear (lb/sq ft)		0.12
Alpha	1.00	Stream Power (lb/ft s)		0.17
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.90	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.35	Wt. n-Val.		0.030
W.S. Elev (ft)	4801.55	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.53	Flow Area (sq ft)		15.76
E.G. Slope (ft/ft)	0.014045	Area (sq ft)		15.76
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	21.06	Top Width (ft)		21.06
Vel Total (ft/s)	4.76	Avg. Vel. (ft/s)		4.76
Max Chl Dpth (ft)	1.45	Hydr. Depth (ft)		0.75
Conv. Total (cfs)	632.8	Conv. (cfs)		632.8

lower_bigdominguezV2.rep

Length Wtd. (ft)	4.90	Wetted Per. (ft)	21.59
Min Ch El (ft)	4800.10	Shear (lb/sq ft)	0.64
Alpha	1.00	Stream Power (lb/ft s)	3.05
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.03
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.03
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.21	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.57	Wt. n-Val.	0.075	0.030
0.200				
W.S. Elev (ft)	4802.64	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	1.28	40.71
1.63				
E.G. Slope (ft/ft)	0.007329	Area (sq ft)	1.28	40.71
1.63				
Q Total (cfs)	250.00	Flow (cfs)	1.21	248.14
0.65				
Top Width (ft)	29.16	Top Width (ft)	2.95	23.08
3.13				
Vel Total (ft/s)	5.73	Avg. Vel. (ft/s)	0.95	6.10
0.40				
Max Chl Dpth (ft)	2.54	Hydr. Depth (ft)	0.43	1.76
0.52				
Conv. Total (cfs)	2920.2	Conv. (cfs)	14.2	2898.4
7.6				
Length Wtd. (ft)	4.90	Wetted Per. (ft)	3.08	23.62
3.31				
Min Ch El (ft)	4800.10	Shear (lb/sq ft)	0.19	0.79
0.23				
Alpha	1.12	Stream Power (lb/ft s)	0.18	4.81
0.09				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.07
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.76	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.77	Wt. n-Val.	0.075	0.030
0.200				
W.S. Elev (ft)	4804.99	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	17.59	95.02
21.97				
E.G. Slope (ft/ft)	0.003325	Area (sq ft)	17.59	95.02
21.97				

lower_bigdominguezV2.rep				
Q Total (cfs)	725.00	Flow (cfs)	26.89	686.35
11.76				
Top Width (ft)	49.30	Top Width (ft)	10.90	23.08
15.32				
Vel Total (ft/s)	5.39	Avg. Vel. (ft/s)	1.53	7.22
0.54				
Max Chl Dpth (ft)	4.89	Hydr. Depth (ft)	1.61	4.12
1.43				
Conv. Total (cfs)	12573.8	Conv. (cfs)	466.4	11903.4
204.0				
Length Wtd. (ft)	4.92	Wetted Per. (ft)	11.37	23.62
15.73				
Min Ch El (ft)	4800.10	Shear (lb/sq ft)	0.32	0.83
0.29				
Alpha	1.71	Stream Power (lb/ft s)	0.49	6.03
0.16				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.04	0.14
0.04				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.03
0.03				

CROSS SECTION

RIVER: Lower Big Doming
REACH: A RS: 13.3333*

INPUT

Description:

Station Elevation Data		num= 34							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4812.13	6.77	4808.08	8.96	4807.26	16.87	4805.32	17.34	4805.18
25.02	4802.94	29.31	4801.69	34.25	4801.08	35.84	4800.92	37.85	4800.77
38.28	4800.71	38.73	4800.71	39.41	4800.57	40.03	4800.48	40.94	4800.29
41.91	4800.03	43.14	4800.1	43.5	4800.36	43.97	4800.2	45.09	4800.26
45.29	4800.49	45.56	4800.33	45.86	4800.37	46.72	4800.48	47.52	4800.59
47.95	4800.65	50.08	4800.94	50.18	4800.97	51.81	4801.51	54.64	4802.52
57.54	4803.34	64.67	4804.54	67.4	4805.04	78.35	4811.36		

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
0	.073	29.31	.03	51.81	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	29.31	51.81		5.18	4.9	5.44	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.33	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.29	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.52
E.G. Slope (ft/ft)	0.013705	Area (sq ft)		0.52
Q Total (cfs)	0.77	Flow (cfs)		0.77

	lower_bigdominguezV2.rep		
Top Width (ft)	3.91	Top Width (ft)	3.91
Vel Total (ft/s)	1.48	Avg. Vel. (ft/s)	1.48
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)	0.13
Conv. Total (cfs)	6.6	Conv. (cfs)	6.6
Length Wtd. (ft)	4.90	Wetted Per. (ft)	4.04
Min Ch El (ft)	4800.03	Shear (lb/sq ft)	0.11
Alpha	1.00	Stream Power (lb/ft s)	0.16
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.83	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.36	Wt. n-Val.		0.030
W.S. Elev (ft)	4801.48	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.45	Flow Area (sq ft)		15.68
E.G. Slope (ft/ft)	0.013926	Area (sq ft)		15.68
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	20.68	Top Width (ft)		20.68
Vel Total (ft/s)	4.78	Avg. Vel. (ft/s)		4.78
Max Chl Dpth (ft)	1.45	Hydr. Depth (ft)		0.76
Conv. Total (cfs)	635.5	Conv. (cfs)		635.5
Length Wtd. (ft)	4.90	Wetted Per. (ft)		21.19
Min Ch El (ft)	4800.03	Shear (lb/sq ft)		0.64
Alpha	1.00	Stream Power (lb/ft s)		3.08
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)		0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.17	Element	Left OB	Channel
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Right OB				
Vel Head (ft)	0.57	Wt. n-Val.	0.073	0.030
0.200				
W.S. Elev (ft)	4802.61	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	1.44	40.87
1.68				
E.G. Slope (ft/ft)	0.006982	Area (sq ft)	1.44	40.87
1.68				
Q Total (cfs)	250.00	Flow (cfs)	1.41	247.92
0.66				
Top Width (ft)	28.77	Top Width (ft)	3.14	22.50
3.13				
Vel Total (ft/s)	5.68	Avg. Vel. (ft/s)	0.98	6.07
0.39				
Max Chl Dpth (ft)	2.58	Hydr. Depth (ft)	0.46	1.82
0.54				
Conv. Total (cfs)	2991.9	Conv. (cfs)	16.9	2967.1
8.0				
Length Wtd. (ft)	4.90	Wetted Per. (ft)	3.27	23.03
3.32				
Min Ch El (ft)	4800.03	Shear (lb/sq ft)	0.19	0.77
0.22				
Alpha	1.13	Stream Power (lb/ft s)	0.19	4.69
0.09				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.06
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.74	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.78	Wt. n-Val.	0.073	0.030
0.200				
W.S. Elev (ft)	4804.96	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	18.32	93.81
21.95				
E.G. Slope (ft/ft)	0.003331	Area (sq ft)	18.32	93.81
21.95				
Q Total (cfs)	725.00	Flow (cfs)	29.06	684.11
11.83				
Top Width (ft)	48.85	Top Width (ft)	11.21	22.50
15.14				
Vel Total (ft/s)	5.41	Avg. Vel. (ft/s)	1.59	7.29
0.54				
Max Chl Dpth (ft)	4.93	Hydr. Depth (ft)	1.63	4.17
1.45				
Conv. Total (cfs)	12560.9	Conv. (cfs)	503.5	11852.4
205.0				
Length Wtd. (ft)	4.92	Wetted Per. (ft)	11.68	23.03
15.57				
Min Ch El (ft)	4800.03	Shear (lb/sq ft)	0.33	0.85
0.29				
Alpha	1.72	Stream Power (lb/ft s)	0.52	6.18
0.16				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.04	0.13
0.04				

C & E Loss (ft)	lower_bigdominguezV2.rep		
0.02	0.00 Cum SA (acres)	0.02	0.03

CROSS SECTION

RIVER: Lower Big Doming
 REACH: A RS: 13.1666*

INPUT

Description:

Station Elevation Data		num=		34					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4812.1	6.81	4807.98	9	4807.11	16.94	4805.21	17.42	4805.08
25.13	4802.86	29.44	4801.61	34.27	4800.96	35.83	4800.81	37.79	4800.66
38.21	4800.6	38.66	4800.62	39.32	4800.47	39.93	4800.39	40.82	4800.21
41.76	4799.96	42.95	4800.04	43.31	4800.27	43.76	4800.13	44.85	4800.19
45.04	4800.4	45.31	4800.25	45.59	4800.29	46.43	4800.4	47.2	4800.5
47.62	4800.57	49.68	4800.88	49.78	4800.91	51.36	4801.44	54.23	4802.49
57.18	4803.31	64.41	4804.55	67.18	4805.08	78.3	4811.21		

Manning's n Values		num=		3	
Sta	n Val	Sta	n Val	Sta	n Val
0	.072	29.44	.03	51.36	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	29.44	51.36		5.18	4.9	5.44	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.26	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.23	Reach Len. (ft)	5.18	4.90
5.44		Flow Area (sq ft)		0.52
Crit W.S. (ft)		Area (sq ft)		0.52
E.G. Slope (ft/ft)	0.013555	Flow (cfs)		0.77
Q Total (cfs)	0.77	Top Width (ft)		3.95
Top Width (ft)	3.95	Avg. Vel. (ft/s)		1.47
Vel Total (ft/s)	1.47	Hydr. Depth (ft)		0.13
Max Chl Dpth (ft)	0.27	Conv. (cfs)		6.6
Conv. Total (cfs)	6.6	Wetted Per. (ft)		4.08
Length Wtd. (ft)	4.90	Shear (lb/sq ft)		0.11
Min Ch El (ft)	4799.96	Stream Power (lb/ft s)		0.16
Alpha	1.00	Cum Volume (acre-ft)		0.00
Frctn Loss (ft)	0.07	Cum SA (acres)		0.01
C & E Loss (ft)	0.00			

lower_bigdominguezV2.rep

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.77	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.36	Wt. n-Val.		0.030
W.S. Elev (ft)	4801.41	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.38	Flow Area (sq ft)		15.63
E.G. Slope (ft/ft)	0.013746	Area (sq ft)		15.63
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	20.32	Top Width (ft)		20.32
Vel Total (ft/s)	4.80	Avg. Vel. (ft/s)		4.80
Max Chl Dpth (ft)	1.45	Hydr. Depth (ft)		0.77
Conv. Total (cfs)	639.7	Conv. (cfs)		639.7
Length Wtd. (ft)	4.90	Wetted Per. (ft)		20.79
Min Ch El (ft)	4799.96	Shear (lb/sq ft)		0.64
Alpha	1.00	Stream Power (lb/ft s)		3.10
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)		0.03
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.13	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.56	Wt. n-Val.	0.072	0.030
0.200				
W.S. Elev (ft)	4802.57	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	1.60	41.01
1.75				
E.G. Slope (ft/ft)	0.006647	Area (sq ft)	1.60	41.01
1.75				
Q Total (cfs)	250.00	Flow (cfs)	1.61	247.71
0.69				
Top Width (ft)	28.40	Top Width (ft)	3.32	21.92
3.17				
Vel Total (ft/s)	5.64	Avg. Vel. (ft/s)	1.01	6.04
0.39				
Max Chl Dpth (ft)	2.61	Hydr. Depth (ft)	0.48	1.87
0.55				
Conv. Total (cfs)	3066.5	Conv. (cfs)	19.7	3038.3

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8.5				
Length Wtd. (ft)	4.90	Wetted Per. (ft)	3.46	22.42
3.36				
Min Ch El (ft)	4799.96	Shear (lb/sq ft)	0.19	0.76
0.22				
Alpha	1.14	Stream Power (lb/ft s)	0.19	4.59
0.09				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.06
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.03
0.01				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.72	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.80	Wt. n-Val.	0.072	0.030
0.200				
W.S. Elev (ft)	4804.92	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	18.94	92.46
21.95				
E.G. Slope (ft/ft)	0.003355	Area (sq ft)	18.94	92.46
21.95				
Q Total (cfs)	725.00	Flow (cfs)	30.80	682.25
11.95				
Top Width (ft)	48.36	Top Width (ft)	11.46	21.92
14.98				
Vel Total (ft/s)	5.44	Avg. Vel. (ft/s)	1.63	7.38
0.54				
Max Chl Dpth (ft)	4.96	Hydr. Depth (ft)	1.65	4.22
1.46				
Conv. Total (cfs)	12516.6	Conv. (cfs)	531.7	11778.5
206.3				
Length Wtd. (ft)	4.92	Wetted Per. (ft)	11.93	22.42
15.42				
Min Ch El (ft)	4799.96	Shear (lb/sq ft)	0.33	0.86
0.30				
Alpha	1.74	Stream Power (lb/ft s)	0.54	6.38
0.16				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.04	0.12
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.03
0.02				

CROSS SECTION

RIVER: Lower Big Doming
 REACH: A

RS: 13.*

INPUT

Description:

Station	Elevation	Data	num=	34						
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	
0	4812.07	6.84	4807.89	9.04	4806.96	17.02	4805.09	17.5	4804.97	
25.24	4802.77	29.57	4801.53	34.29	4800.85	35.81	4800.69	37.74	4800.55	
38.15	4800.5	38.58	4800.53	39.23	4800.37	39.82	4800.3	40.69	4800.13	

lower_bigdominguezV2.rep

41.62	4799.9	42.77	4799.97	43.11	4800.19	43.55	4800.06	44.61	4800.11
44.79	4800.31	45.05	4800.17	45.33	4800.21	46.13	4800.32	46.88	4800.42
47.29	4800.5	49.29	4800.81	49.38	4800.84	50.91	4801.37	53.82	4802.47
56.82	4803.28	64.15	4804.56	66.97	4805.13	78.25	4811.07		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.07	29.57	.03	50.91	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	29.57	50.91		5.18	4.9	5.44	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.19	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.16	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.52
E.G. Slope (ft/ft)	0.014328	Area (sq ft)		0.52
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	3.96	Top Width (ft)		3.96
Vel Total (ft/s)	1.49	Avg. Vel. (ft/s)		1.49
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.13
Conv. Total (cfs)	6.4	Conv. (cfs)		6.4
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.08
Min Ch El (ft)	4799.90	Shear (lb/sq ft)		0.11
Alpha	1.00	Stream Power (lb/ft s)		0.17
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.70	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.36	Wt. n-Val.		0.030
W.S. Elev (ft)	4801.34	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.31	Flow Area (sq ft)		15.64
E.G. Slope (ft/ft)	0.013369	Area (sq ft)		15.64

Q Total (cfs)	75.00	lower_bigdominguezV2.rep Flow (cfs)	75.00
Top Width (ft)	19.95	Top Width (ft)	19.95
Vel Total (ft/s)	4.79	Avg. Vel. (ft/s)	4.79
Max Chl Dpth (ft)	1.44	Hydr. Depth (ft)	0.78
Conv. Total (cfs)	648.6	Conv. (cfs)	648.6
Length Wtd. (ft)	4.90	Wetted Per. (ft)	20.42
Min Ch El (ft)	4799.90	Shear (lb/sq ft)	0.64
Alpha	1.00	Stream Power (lb/ft s)	3.07
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)	0.02
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.02
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.10	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.56	Wt. n-Val.	0.070	0.030
0.200				
W.S. Elev (ft)	4802.54	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	1.77	41.05
1.81				
E.G. Slope (ft/ft)	0.006381	Area (sq ft)	1.77	41.05
1.81				
Q Total (cfs)	250.00	Flow (cfs)	1.86	247.44
0.71				
Top Width (ft)	28.02	Top Width (ft)	3.52	21.34
3.16				
Vel Total (ft/s)	5.60	Avg. Vel. (ft/s)	1.05	6.03
0.39				
Max Chl Dpth (ft)	2.64	Hydr. Depth (ft)	0.50	1.92
0.57				
Conv. Total (cfs)	3129.6	Conv. (cfs)	23.2	3097.5
8.9				
Length Wtd. (ft)	4.90	Wetted Per. (ft)	3.66	21.83
3.37				
Min Ch El (ft)	4799.90	Shear (lb/sq ft)	0.19	0.75
0.21				
Alpha	1.15	Stream Power (lb/ft s)	0.20	4.52
0.08				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.05
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.70	Element	Left OB	Channel
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Right OB				
Vel Head (ft)	0.81	Wt. n-Val.	0.070	0.030
0.200				
W.S. Elev (ft)	4804.88	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	19.70	91.12
21.98				
E.G. Slope (ft/ft)	0.003373	Area (sq ft)	19.70	91.12
21.98				
Q Total (cfs)	725.00	Flow (cfs)	33.37	679.55
12.08				
Top Width (ft)	47.95	Top Width (ft)	11.77	21.34
14.84				
Vel Total (ft/s)	5.46	Avg. Vel. (ft/s)	1.69	7.46
0.55				
Max Chl Dpth (ft)	4.98	Hydr. Depth (ft)	1.67	4.27
1.48				
Conv. Total (cfs)	12482.5	Conv. (cfs)	574.5	11699.9
208.0				
Length Wtd. (ft)	4.92	Wetted Per. (ft)	12.24	21.83
15.30				
Min Ch El (ft)	4799.90	Shear (lb/sq ft)	0.34	0.88
0.30				
Alpha	1.75	Stream Power (lb/ft s)	0.57	6.56
0.17				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.03	0.11
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.02
0.02				

CROSS SECTION

RIVER: Lower Big Doming
 REACH: A RS: 12.8333*

INPUT

Description:

Station	Elevation	Data	num=	34					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4812.04	6.87	4807.79	9.09	4806.8	17.1	4804.98	17.58	4804.86
25.36	4802.68	29.71	4801.45	34.32	4800.73	35.8	4800.57	37.68	4800.44
38.08	4800.39	38.51	4800.44	39.14	4800.28	39.72	4800.21	40.57	4800.04
41.47	4799.83	42.58	4799.9	42.92	4800.1	43.34	4799.99	44.36	4800.04
44.54	4800.22	44.79	4800.1	45.06	4800.13	45.84	4800.24	46.56	4800.34
46.95	4800.42	48.89	4800.75	48.97	4800.78	50.46	4801.3	53.42	4802.44
56.45	4803.25	63.9	4804.57	66.75	4805.17	78.2	4810.92		

Manning's n Values	num=	3
Sta n Val	Sta n Val	Sta n Val
0 .068	29.71 .03	50.46 .2

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff Contr.	Expan.
29.71	50.46	5.18	4.9	5.44	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.12	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030

lower_bigdominguezV2.rep

W.S. Elev (ft)	4800.09	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.52
E.G. Slope (ft/ft)	0.014401	Area (sq ft)		0.52
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.02	Top Width (ft)		4.02
Vel Total (ft/s)	1.49	Avg. Vel. (ft/s)		1.49
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.13
Conv. Total (cfs)	6.4	Conv. (cfs)		6.4
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.14
Min Ch El (ft)	4799.83	Shear (lb/sq ft)		0.11
Alpha	1.00	Stream Power (lb/ft s)		0.17
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.01

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.63	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.36	Wt. n-Val.		0.030
W.S. Elev (ft)	4801.27	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.24	Flow Area (sq ft)		15.60
E.G. Slope (ft/ft)	0.013104	Area (sq ft)		15.60
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	19.54	Top Width (ft)		19.54
Vel Total (ft/s)	4.81	Avg. Vel. (ft/s)		4.81
Max Chl Dpth (ft)	1.44	Hydr. Depth (ft)		0.80
Conv. Total (cfs)	655.2	Conv. (cfs)		655.2
Length Wtd. (ft)	4.90	Wetted Per. (ft)		19.98
Min Ch El (ft)	4799.83	Shear (lb/sq ft)		0.64
Alpha	1.00	Stream Power (lb/ft s)		3.07
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.02
0.00				

C & E Loss (ft)	lower_bigdominguezV2.rep	
0.00	0.00 Cum SA (acres)	0.02

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.06	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.56	Wt. n-Val.	0.068	0.030
0.200				
W.S. Elev (ft)	4802.51	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	1.97	41.07
1.89				
E.G. Slope (ft/ft)	0.006113	Area (sq ft)	1.97	41.07
1.89				
Q Total (cfs)	250.00	Flow (cfs)	2.14	247.12
0.74				
Top Width (ft)	27.69	Top Width (ft)	3.73	20.75
3.21				
Vel Total (ft/s)	5.56	Avg. Vel. (ft/s)	1.09	6.02
0.39				
Max Chl Dpth (ft)	2.68	Hydr. Depth (ft)	0.53	1.98
0.59				
Conv. Total (cfs)	3197.5	Conv. (cfs)	27.4	3160.7
9.4				
Length Wtd. (ft)	4.90	Wetted Per. (ft)	3.88	21.21
3.43				
Min Ch El (ft)	4799.83	Shear (lb/sq ft)	0.19	0.74
0.21				
Alpha	1.16	Stream Power (lb/ft s)	0.21	4.45
0.08				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.05
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.67	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.83	Wt. n-Val.	0.068	0.030
0.200				
W.S. Elev (ft)	4804.85	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	20.45	89.61
22.01				
E.G. Slope (ft/ft)	0.003404	Area (sq ft)	20.45	89.61
22.01				
Q Total (cfs)	725.00	Flow (cfs)	36.12	676.67
12.21				
Top Width (ft)	47.57	Top Width (ft)	12.08	20.75
14.75				
Vel Total (ft/s)	5.49	Avg. Vel. (ft/s)	1.77	7.55
0.55				
Max Chl Dpth (ft)	5.01	Hydr. Depth (ft)	1.69	4.32
1.49				
Conv. Total (cfs)	12426.7	Conv. (cfs)	619.1	11598.4

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209.2				
Length Wtd. (ft)	4.92	Wetted Per. (ft)	12.54	21.21
15.21				
Min Ch El (ft)	4799.83	Shear (lb/sq ft)	0.35	0.90
0.31				
Alpha	1.77	Stream Power (lb/ft s)	0.61	6.78
0.17				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.03	0.10
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.02
0.02				

CROSS SECTION

RIVER: Lower Big Doming
 REACH: A

RS: 12.6666*

INPUT

Description:

Station	Elevation	Data	num=	34					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4812.02	6.9	4807.7	9.13	4806.65	17.17	4804.87	17.66	4804.76
25.47	4802.59	29.84	4801.37	34.34	4800.62	35.79	4800.46	37.63	4800.33
38.01	4800.28	38.43	4800.35	39.05	4800.18	39.61	4800.11	40.44	4799.96
41.33	4799.76	42.4	4799.83	42.72	4800.01	43.13	4799.91	44.12	4799.97
44.29	4800.13	44.53	4800.02	44.79	4800.05	45.54	4800.16	46.25	4800.26
46.62	4800.34	48.49	4800.69	48.57	4800.71	50.01	4801.23	53.01	4802.42
56.09	4803.22	63.64	4804.59	66.54	4805.21	78.15	4810.77		

Manning's n Values

num=

3

Sta	n Val	Sta	n Val	Sta	n Val
0	.067	29.84	.03	50.01	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	29.84	50.01		5.18	4.9	5.44	.1
							.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4800.05	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.02	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.52
E.G. Slope (ft/ft)	0.014622	Area (sq ft)		0.52
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.04	Top Width (ft)		4.04
Vel Total (ft/s)	1.49	Avg. Vel. (ft/s)		1.49
Max Chl Dpth (ft)	0.26	Hydr. Depth (ft)		0.13
Conv. Total (cfs)	6.4	Conv. (cfs)		6.4
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.15

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Min Ch El (ft)	4799.76	Shear (lb/sq ft)	0.11
Alpha	1.00	Stream Power (lb/ft s)	0.17
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.01

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.57	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.36	Wt. n-Val.		0.030
W.S. Elev (ft)	4801.21	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.16	Flow Area (sq ft)		15.52
E.G. Slope (ft/ft)	0.012926	Area (sq ft)		15.52
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	19.11	Top Width (ft)		19.11
Vel Total (ft/s)	4.83	Avg. Vel. (ft/s)		4.83
Max Chl Dpth (ft)	1.44	Hydr. Depth (ft)		0.81
Conv. Total (cfs)	659.7	Conv. (cfs)		659.7
Length Wtd. (ft)	4.90	Wetted Per. (ft)		19.54
Min Ch El (ft)	4799.76	Shear (lb/sq ft)		0.64
Alpha	1.00	Stream Power (lb/ft s)		3.10
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)		0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4803.03	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.56	Wt. n-Val.	0.067	0.030
0.200				
W.S. Elev (ft)	4802.47	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	2.16	40.92
1.93				
E.G. Slope (ft/ft)	0.005947	Area (sq ft)	2.16	40.92
1.93				
Q Total (cfs)	250.00	Flow (cfs)	2.41	246.83
0.76				

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Top Width (ft)	27.29	Top Width (ft)	3.93 20.17
3.18			
Vel Total (ft/s)	5.55	Avg. Vel. (ft/s)	1.12 6.03
0.39			
Max Chl Dpth (ft)	2.71	Hydr. Depth (ft)	0.55 2.03
0.61			
Conv. Total (cfs)	3241.9	Conv. (cfs)	31.3 3200.7
9.8			
Length Wtd. (ft)	4.90	Wetted Per. (ft)	4.08 20.62
3.42			
Min Ch El (ft)	4799.76	Shear (lb/sq ft)	0.20 0.74
0.21			
Alpha	1.16	Stream Power (lb/ft s)	0.22 4.44
0.08			
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00 0.04
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.01 0.02
0.00			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.65	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.85	Wt. n-Val.	0.067	0.030
0.200				
W.S. Elev (ft)	4804.80	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	21.11	87.95
21.87				
E.G. Slope (ft/ft)	0.003464	Area (sq ft)	21.11	87.95
21.87				
Q Total (cfs)	725.00	Flow (cfs)	38.41	674.34
12.25				
Top Width (ft)	47.14	Top Width (ft)	12.36	20.17
14.61				
Vel Total (ft/s)	5.54	Avg. Vel. (ft/s)	1.82	7.67
0.56				
Max Chl Dpth (ft)	5.04	Hydr. Depth (ft)	1.71	4.36
1.50				
Conv. Total (cfs)	12317.6	Conv. (cfs)	652.6	11456.8
208.2				
Length Wtd. (ft)	4.92	Wetted Per. (ft)	12.82	20.62
15.08				
Min Ch El (ft)	4799.76	Shear (lb/sq ft)	0.36	0.92
0.31				
Alpha	1.79	Stream Power (lb/ft s)	0.65	7.07
0.18				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.03	0.09
0.03				
C & E Loss (ft)	0.00	Cum SA (acres)	0.02	0.02
0.02				

CROSS SECTION

RIVER: Lower Big Doming
 REACH: A RS: 12.5*

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INPUT

Description:

Station Elevation Data		num=		34					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4811.99	6.93	4807.6	9.17	4806.5	17.25	4804.76	17.74	4804.65
25.58	4802.5	29.97	4801.29	34.36	4800.5	35.78	4800.34	37.57	4800.22
37.95	4800.18	38.36	4800.26	38.96	4800.08	39.51	4800.02	40.32	4799.88
41.18	4799.69	42.22	4799.76	42.53	4799.93	42.92	4799.84	43.87	4799.89
44.04	4800.04	44.27	4799.94	44.52	4799.97	45.25	4800.08	45.93	4800.18
46.29	4800.26	48.09	4800.62	48.17	4800.65	49.56	4801.15	52.6	4802.39
55.72	4803.18	63.38	4804.6	66.32	4805.25	78.1	4810.63		

Manning's n Values

num=		3	
Sta	n Val	Sta	n Val
0	.065	29.97	.03
		49.56	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	29.97	49.56		5.18	4.9	5.44	.1
							.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4799.98	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4799.95	Reach Len. (ft)	5.18	4.90
5.44		Flow Area (sq ft)		0.53
Crit W.S. (ft)		Area (sq ft)		0.53
E.G. Slope (ft/ft)	0.013609	Flow (cfs)		0.77
Q Total (cfs)	0.77	Top Width (ft)		4.13
Top Width (ft)	4.13	Avg. Vel. (ft/s)		1.45
Vel Total (ft/s)	1.45	Hydr. Depth (ft)		0.13
Max Chl Dpth (ft)	0.26	Conv. (cfs)		6.6
Conv. Total (cfs)	6.6	Wetted Per. (ft)		4.24
Length Wtd. (ft)	4.90	Shear (lb/sq ft)		0.11
Min Ch El (ft)	4799.69	Stream Power (lb/ft s)		0.15
Alpha	1.00	Cum Volume (acre-ft)		0.00
Frctn Loss (ft)	0.07	Cum SA (acres)		0.00
C & E Loss (ft)	0.00			

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.50	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.36	Wt. n-Val.		0.030

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W.S. Elev (ft)	4801.14	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.09	Flow Area (sq ft)		15.51
E.G. Slope (ft/ft)	0.012615	Area (sq ft)		15.51
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	18.71	Top Width (ft)		18.71
Vel Total (ft/s)	4.84	Avg. Vel. (ft/s)		4.84
Max Chl Dpth (ft)	1.45	Hydr. Depth (ft)		0.83
Conv. Total (cfs)	667.8	Conv. (cfs)		667.8
Length Wtd. (ft)	4.90	Wetted Per. (ft)		19.14
Min Ch El (ft)	4799.69	Shear (lb/sq ft)		0.64
Alpha	1.00	Stream Power (lb/ft s)		3.09
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)		0.02
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4802.99	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.56	Wt. n-Val.	0.065	0.030
0.200				
W.S. Elev (ft)	4802.44	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	2.38	40.88
2.03				
E.G. Slope (ft/ft)	0.005722	Area (sq ft)	2.38	40.88
2.03				
Q Total (cfs)	250.00	Flow (cfs)	2.78	246.43
0.80				
Top Width (ft)	26.97	Top Width (ft)	4.16	19.59
3.22				
Vel Total (ft/s)	5.52	Avg. Vel. (ft/s)	1.16	6.03
0.39				
Max Chl Dpth (ft)	2.75	Hydr. Depth (ft)	0.57	2.09
0.63				
Conv. Total (cfs)	3304.8	Conv. (cfs)	36.7	3257.6
10.5				
Length Wtd. (ft)	4.91	Wetted Per. (ft)	4.31	20.04
3.47				
Min Ch El (ft)	4799.69	Shear (lb/sq ft)	0.20	0.73
0.21				
Alpha	1.18	Stream Power (lb/ft s)	0.23	4.39
0.08				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.04
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.02
0.00				

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CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.63	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.87	Wt. n-Val.	0.065	0.030
0.200				
W.S. Elev (ft)	4804.76	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	21.85	86.34
21.93				
E.G. Slope (ft/ft)	0.003512	Area (sq ft)	21.85	86.34
21.93				
Q Total (cfs)	725.00	Flow (cfs)	41.50	671.08
12.42				
Top Width (ft)	46.83	Top Width (ft)	12.71	19.59
14.53				
Vel Total (ft/s)	5.57	Avg. Vel. (ft/s)	1.90	7.77
0.57				
Max Chl Dpth (ft)	5.07	Hydr. Depth (ft)	1.72	4.41
1.51				
Conv. Total (cfs)	12234.0	Conv. (cfs)	700.2	11324.1
209.6				
Length Wtd. (ft)	4.93	Wetted Per. (ft)	13.17	20.04
15.02				
Min Ch El (ft)	4799.69	Shear (lb/sq ft)	0.36	0.94
0.32				
Alpha	1.81	Stream Power (lb/ft s)	0.69	7.34
0.18				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.03	0.08
0.02				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.02
0.02				

CROSS SECTION

RIVER: Lower Big Doming

REACH: A

RS: 12.3333*

INPUT

Description:

Station Elevation Data		num= 34							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4811.96	6.96	4807.5	9.21	4806.35	17.33	4804.65	17.82	4804.54
25.7	4802.42	30.11	4801.21	34.39	4800.38	35.77	4800.22	37.51	4800.11
37.88	4800.07	38.28	4800.17	38.87	4799.99	39.41	4799.93	40.19	4799.8
41.03	4799.63	42.03	4799.69	42.33	4799.84	42.72	4799.77	43.63	4799.82
43.79	4799.95	44.01	4799.87	44.26	4799.89	44.96	4800	45.61	4800.1
45.96	4800.18	47.7	4800.56	47.77	4800.59	49.1	4801.08	52.19	4802.37
55.36	4803.15	63.13	4804.61	66.11	4805.29	78.05	4810.48		

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.063	30.11	.03	49.1	.2

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
30.11	49.1	5.18	4.9	5.44	.1	.3	

lower_bigdominguezV2.rep

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4799.91	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4799.88	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.52
E.G. Slope (ft/ft)	0.014511	Area (sq ft)		0.52
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.14	Top Width (ft)		4.14
Vel Total (ft/s)	1.48	Avg. Vel. (ft/s)		1.48
Max Chl Dpth (ft)	0.25	Hydr. Depth (ft)		0.13
Conv. Total (cfs)	6.4	Conv. (cfs)		6.4
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.23
Min Ch El (ft)	4799.63	Shear (lb/sq ft)		0.11
Alpha	1.00	Stream Power (lb/ft s)		0.16
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.44	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.36	Wt. n-Val.		0.030
W.S. Elev (ft)	4801.08	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.02	Flow Area (sq ft)		15.57
E.G. Slope (ft/ft)	0.012090	Area (sq ft)		15.57
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	18.31	Top Width (ft)		18.31
Vel Total (ft/s)	4.82	Avg. Vel. (ft/s)		4.82
Max Chl Dpth (ft)	1.45	Hydr. Depth (ft)		0.85
Conv. Total (cfs)	682.1	Conv. (cfs)		682.1
Length Wtd. (ft)	4.90	Wetted Per. (ft)		18.73

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Min Ch El (ft)	4799.63	Shear (lb/sq ft)	0.63
Alpha	1.00	Stream Power (lb/ft s)	3.02
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)	0.01
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.01
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4802.96	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.56	Wt. n-Val.	0.063	0.030
0.200				
W.S. Elev (ft)	4802.40	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	2.56	40.51
2.07				
E.G. Slope (ft/ft)	0.005643	Area (sq ft)	2.56	40.51
2.07				
Q Total (cfs)	250.00	Flow (cfs)	3.12	246.06
0.82				
Top Width (ft)	26.50	Top Width (ft)	4.32	18.99
3.19				
Vel Total (ft/s)	5.54	Avg. Vel. (ft/s)	1.22	6.07
0.40				
Max Chl Dpth (ft)	2.76	Hydr. Depth (ft)	0.59	2.13
0.65				
Conv. Total (cfs)	3328.1	Conv. (cfs)	41.5	3275.7
10.9				
Length Wtd. (ft)	4.91	Wetted Per. (ft)	4.48	19.42
3.45				
Min Ch El (ft)	4799.63	Shear (lb/sq ft)	0.20	0.73
0.21				
Alpha	1.18	Stream Power (lb/ft s)	0.25	4.46
0.08				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.60	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.90	Wt. n-Val.	0.063	0.030
0.200				
W.S. Elev (ft)	4804.70	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	22.45	84.37
21.79				
E.G. Slope (ft/ft)	0.003604	Area (sq ft)	22.45	84.37
21.79				
Q Total (cfs)	725.00	Flow (cfs)	44.61	667.89
12.50				

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Top Width (ft)	46.47	Top Width (ft)	13.04	18.99
14.44				
Vel Total (ft/s)	5.64	Avg. Vel. (ft/s)	1.99	7.92
0.57				
Max Chl Dpth (ft)	5.07	Hydr. Depth (ft)	1.72	4.44
1.51				
Conv. Total (cfs)	12077.2	Conv. (cfs)	743.1	11125.9
208.2				
Length Wtd. (ft)	4.93	Wetted Per. (ft)	13.50	19.42
14.94				
Min Ch El (ft)	4799.63	Shear (lb/sq ft)	0.37	0.98
0.33				
Alpha	1.82	Stream Power (lb/ft s)	0.74	7.74
0.19				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.02	0.07
0.02				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.01				

CROSS SECTION

RIVER: Lower Big Doming
 REACH: A RS: 12.1666*

INPUT

Description:

Station Elevation Data				num=	34				
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4811.94	6.99	4807.41	9.25	4806.19	17.4	4804.54	17.89	4804.44
25.81	4802.33	30.24	4801.13	34.41	4800.27	35.76	4800.1	37.46	4800
37.82	4799.96	38.2	4800.08	38.78	4799.89	39.3	4799.83	40.07	4799.72
40.89	4799.56	41.85	4799.62	42.14	4799.76	42.51	4799.69	43.39	4799.74
43.54	4799.86	43.75	4799.79	43.99	4799.81	44.66	4799.92	45.29	4800.01
45.63	4800.1	47.3	4800.5	47.37	4800.52	48.65	4801.01	51.79	4802.34
55	4803.12	62.87	4804.62	65.89	4805.34	78	4810.33		

Manning's n Values				num=	3
Sta	n Val	Sta	n Val	Sta	n Val
0	.062	30.24	.03	48.65	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	30.24	48.65		5.18	4.9	5.44	.1
							.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4799.84	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4799.81	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.53
E.G. Slope (ft/ft)	0.014617	Area (sq ft)		0.53
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.30	Top Width (ft)		4.30

Vel Total (ft/s)	1.46	lower_bigdominguezV2.rep Avg. Vel. (ft/s)	1.46
Max Chl Dpth (ft)	0.25	Hydr. Depth (ft)	0.12
Conv. Total (cfs)	6.4	Conv. (cfs)	6.4
Length Wtd. (ft)	4.90	Wetted Per. (ft)	4.39
Min Ch El (ft)	4799.56	Shear (lb/sq ft)	0.11
Alpha	1.00	Stream Power (lb/ft s)	0.16
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.00

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.38	Element	Left OB	Channel
Right OB Vel Head (ft)	0.36	Wt. n-Val.		0.030
W.S. Elev (ft)	4801.01	Reach Len. (ft)	5.18	4.90
5.44 Crit W.S. (ft)	4800.95	Flow Area (sq ft)		15.53
E.G. Slope (ft/ft)	0.011821	Area (sq ft)		15.53
0.00 Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	17.86	Top Width (ft)		17.85
0.01 Vel Total (ft/s)	4.83	Avg. Vel. (ft/s)		4.83
Max Chl Dpth (ft)	1.45	Hydr. Depth (ft)		0.87
Conv. Total (cfs)	689.8	Conv. (cfs)		689.8
Length Wtd. (ft)	4.90	Wetted Per. (ft)		18.28
Min Ch El (ft)	4799.56	Shear (lb/sq ft)		0.63
Alpha	1.00	Stream Power (lb/ft s)		3.03
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.01
0.00 C & E Loss (ft)	0.00	Cum SA (acres)		0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4802.93	Element	Left OB	Channel
Right OB Vel Head (ft)	0.57	Wt. n-Val.	0.062	0.030

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0.200				
W.S. Elev (ft)	4802.35	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	2.76	40.15
2.13				
E.G. Slope (ft/ft)	0.005568	Area (sq ft)	2.76	40.15
2.13				
Q Total (cfs)	250.00	Flow (cfs)	3.48	245.67
0.85				
Top Width (ft)	26.12	Top Width (ft)	4.52	18.41
3.20				
Vel Total (ft/s)	5.55	Avg. Vel. (ft/s)	1.26	6.12
0.40				
Max Chl Dpth (ft)	2.79	Hydr. Depth (ft)	0.61	2.18
0.67				
Conv. Total (cfs)	3350.2	Conv. (cfs)	46.6	3292.2
11.4				
Length Wtd. (ft)	4.91	Wetted Per. (ft)	4.68	18.85
3.47				
Min Ch El (ft)	4799.56	Shear (lb/sq ft)	0.21	0.74
0.21				
Alpha	1.20	Stream Power (lb/ft s)	0.26	4.53
0.09				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.03
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.58	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.94	Wt. n-Val.	0.062	0.030
0.200				
W.S. Elev (ft)	4804.64	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	22.97	82.30
21.55				
E.G. Slope (ft/ft)	0.003732	Area (sq ft)	22.97	82.30
21.55				
Q Total (cfs)	725.00	Flow (cfs)	47.22	665.23
12.55				
Top Width (ft)	46.08	Top Width (ft)	13.35	18.41
14.32				
Vel Total (ft/s)	5.72	Avg. Vel. (ft/s)	2.06	8.08
0.58				
Max Chl Dpth (ft)	5.08	Hydr. Depth (ft)	1.72	4.47
1.50				
Conv. Total (cfs)	11867.4	Conv. (cfs)	773.0	10889.0
205.4				
Length Wtd. (ft)	4.93	Wetted Per. (ft)	13.81	18.85
14.82				
Min Ch El (ft)	4799.56	Shear (lb/sq ft)	0.39	1.02
0.34				
Alpha	1.84	Stream Power (lb/ft s)	0.80	8.22
0.20				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.02	0.06
0.02				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.01				

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CROSS SECTION

RIVER: Lower Big Doming
REACH: A

RS: 12.*

INPUT

Description:

Station Elevation Data		num= 34		Sta Elev		Sta Elev		Sta Elev	
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4811.91	7.02	4807.31	9.29	4806.04	17.48	4804.43	17.97	4804.33
25.92	4802.24	30.37	4801.06	34.43	4800.15	35.74	4799.99	37.4	4799.89
37.75	4799.86	38.13	4800	38.69	4799.79	39.2	4799.74	39.94	4799.63
40.74	4799.49	41.67	4799.56	41.94	4799.67	42.3	4799.62	43.14	4799.67
43.29	4799.77	43.5	4799.71	43.72	4799.73	44.37	4799.84	44.97	4799.93
45.29	4800.02	46.9	4800.43	46.97	4800.46	48.2	4800.94	51.38	4802.32
54.63	4803.09	62.61	4804.64	65.67	4805.38	77.95	4810.19		

Manning's n Values		num= 3		Sta n Val	
Sta	n Val	Sta	n Val	Sta	n Val
0	.06	30.37	.03	48.2	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	30.37	48.2		5.18	4.9	5.44	.1
							.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4799.77	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4799.74	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.54
E.G. Slope (ft/ft)	0.014102	Area (sq ft)		0.54
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.41	Top Width (ft)		4.41
Vel Total (ft/s)	1.43	Avg. Vel. (ft/s)		1.43
Max Chl Dpth (ft)	0.25	Hydr. Depth (ft)		0.12
Conv. Total (cfs)	6.5	Conv. (cfs)		6.5
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.49
Min Ch El (ft)	4799.49	Shear (lb/sq ft)		0.11
Alpha	1.00	Stream Power (lb/ft s)		0.15
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

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Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.32	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.37	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.95	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4800.88	Flow Area (sq ft)		15.40
E.G. Slope (ft/ft)	0.011704	Area (sq ft)		15.40
0.00				
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	17.34	Top Width (ft)		17.33
0.02				
Vel Total (ft/s)	4.87	Avg. Vel. (ft/s)		4.87
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)		0.89
Conv. Total (cfs)	693.3	Conv. (cfs)		693.3
Length Wtd. (ft)	4.90	Wetted Per. (ft)		17.76
Min Ch El (ft)	4799.49	Shear (lb/sq ft)		0.63
Alpha	1.00	Stream Power (lb/ft s)		3.09
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)		0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4802.89	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.58	Wt. n-Val.	0.060	0.030
0.200				
W.S. Elev (ft)	4802.31	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	2.94	39.64
2.16				
E.G. Slope (ft/ft)	0.005557	Area (sq ft)	2.94	39.64
2.16				
Q Total (cfs)	250.00	Flow (cfs)	3.87	245.25
0.88				
Top Width (ft)	25.69	Top Width (ft)	4.71	17.83
3.15				
Vel Total (ft/s)	5.59	Avg. Vel. (ft/s)	1.32	6.19
0.41				
Max Chl Dpth (ft)	2.82	Hydr. Depth (ft)	0.62	2.22
0.68				
Conv. Total (cfs)	3353.6	Conv. (cfs)	52.0	3289.8
11.8				
Length Wtd. (ft)	4.91	Wetted Per. (ft)	4.87	18.28

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3.44				
Min Ch El (ft)	4799.49	Shear (lb/sq ft)	0.21	0.75
0.22				
Alpha	1.20	Stream Power (lb/ft s)	0.28	4.66
0.09				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.55	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.97	Wt. n-Val.	0.060	0.030
0.200				
W.S. Elev (ft)	4804.58	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	23.50	80.16
21.21				
E.G. Slope (ft/ft)	0.003867	Area (sq ft)	23.50	80.16
21.21				
Q Total (cfs)	725.00	Flow (cfs)	50.87	661.58
12.55				
Top Width (ft)	45.59	Top Width (ft)	13.66	17.83
14.11				
Vel Total (ft/s)	5.81	Avg. Vel. (ft/s)	2.16	8.25
0.59				
Max Chl Dpth (ft)	5.09	Hydr. Depth (ft)	1.72	4.50
1.50				
Conv. Total (cfs)	11658.0	Conv. (cfs)	817.9	10638.2
201.8				
Length Wtd. (ft)	4.93	Wetted Per. (ft)	14.11	18.28
14.63				
Min Ch El (ft)	4799.49	Shear (lb/sq ft)	0.40	1.06
0.35				
Alpha	1.85	Stream Power (lb/ft s)	0.87	8.74
0.21				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.02	0.05
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.01				

CROSS SECTION

RIVER: Lower Big Doming
REACH: A

RS: 11.8333*

INPUT

Description:

Station	Elevation	Data	num=	34					
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4811.88	7.05	4807.22	9.33	4805.89	17.55	4804.32	18.05	4804.22
26.04	4802.15	30.5	4800.98	34.46	4800.04	35.73	4799.87	37.34	4799.78
37.69	4799.75	38.05	4799.91	38.6	4799.7	39.09	4799.65	39.82	4799.55
40.6	4799.43	41.48	4799.49	41.75	4799.59	42.09	4799.55	42.9	4799.6
43.04	4799.68	43.24	4799.63	43.45	4799.65	44.07	4799.76	44.65	4799.85

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44.96	4799.94	46.5	4800.37	46.57	4800.4	47.75	4800.87	50.97	4802.29
54.27	4803.06	62.35	4804.65	65.46	4805.42	77.9	4810.04		

Manning's n Values num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.058	30.5	.03	47.75	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff Contr.	Expan.
	30.5	47.75		5.18	4.9	5.44	.1 .3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4799.70	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4799.67	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.54
E.G. Slope (ft/ft)	0.014556	Area (sq ft)		0.54
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.63	Top Width (ft)		4.63
Vel Total (ft/s)	1.42	Avg. Vel. (ft/s)		1.42
Max Chl Dpth (ft)	0.24	Hydr. Depth (ft)		0.12
Conv. Total (cfs)	6.4	Conv. (cfs)		6.4
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.70
Min Ch El (ft)	4799.43	Shear (lb/sq ft)		0.11
Alpha	1.00	Stream Power (lb/ft s)		0.15
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.26	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.37	Wt. n-Val.		0.030
0.000				
W.S. Elev (ft)	4800.89	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4800.81	Flow Area (sq ft)		15.35
0.00				
E.G. Slope (ft/ft)	0.011421	Area (sq ft)		15.35
0.00				
Q Total (cfs)	75.00	Flow (cfs)		75.00
0.00				

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Top Width (ft)	16.90	Top Width (ft)	16.86
0.04			
Vel Total (ft/s)	4.89	Avg. Vel. (ft/s)	4.89
0.03			
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)	0.91
0.01			
Conv. Total (cfs)	701.8	Conv. (cfs)	701.8
0.0			
Length Wtd. (ft)	4.90	Wetted Per. (ft)	17.30
0.04			
Min Ch El (ft)	4799.43	Shear (lb/sq ft)	0.63
Alpha	1.00	Stream Power (lb/ft s)	3.09
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)	0.01
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.01
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4802.86	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.60	Wt. n-Val.	0.058	0.030
0.200				
W.S. Elev (ft)	4802.26	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	3.11	38.95
2.18				
E.G. Slope (ft/ft)	0.005627	Area (sq ft)	3.11	38.95
2.18				
Q Total (cfs)	250.00	Flow (cfs)	4.33	244.77
0.90				
Top Width (ft)	25.27	Top Width (ft)	4.87	17.25
3.14				
Vel Total (ft/s)	5.65	Avg. Vel. (ft/s)	1.39	6.28
0.41				
Max Chl Dpth (ft)	2.83	Hydr. Depth (ft)	0.64	2.26
0.69				
Conv. Total (cfs)	3332.9	Conv. (cfs)	57.7	3263.2
12.0				
Length Wtd. (ft)	4.91	Wetted Per. (ft)	5.04	17.70
3.44				
Min Ch El (ft)	4799.43	Shear (lb/sq ft)	0.22	0.77
0.22				
Alpha	1.21	Stream Power (lb/ft s)	0.30	4.86
0.09				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.53	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.01	Wt. n-Val.	0.058	0.030
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0.200				
W.S. Elev (ft)	4804.52	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	24.10	78.02
21.00				
E.G. Slope (ft/ft)	0.004005	Area (sq ft)	24.10	78.02
21.00				
Q Total (cfs)	725.00	Flow (cfs)	54.96	657.39
12.65				
Top Width (ft)	45.21	Top Width (ft)	14.01	17.25
13.95				
Vel Total (ft/s)	5.89	Avg. Vel. (ft/s)	2.28	8.43
0.60				
Max Chl Dpth (ft)	5.09	Hydr. Depth (ft)	1.72	4.52
1.51				
Conv. Total (cfs)	11456.2	Conv. (cfs)	868.4	10387.9
199.9				
Length Wtd. (ft)	4.93	Wetted Per. (ft)	14.45	17.70
14.48				
Min Ch El (ft)	4799.43	Shear (lb/sq ft)	0.42	1.10
0.36				
Alpha	1.87	Stream Power (lb/ft s)	0.95	9.28
0.22				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.01	0.04
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.01				

CROSS SECTION

RIVER: Lower Big Doming
REACH: A

RS: 11.6666*

INPUT

Description:

Station Elevation Data		num= 34							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4811.86	7.08	4807.12	9.37	4805.74	17.63	4804.21	18.13	4804.12
26.15	4802.06	30.64	4800.9	34.48	4799.92	35.72	4799.75	37.29	4799.67
37.62	4799.64	37.98	4799.82	38.51	4799.6	38.99	4799.56	39.69	4799.47
40.45	4799.36	41.3	4799.42	41.55	4799.5	41.88	4799.47	42.65	4799.52
42.79	4799.59	42.98	4799.56	43.19	4799.58	43.78	4799.68	44.33	4799.77
44.63	4799.86	46.11	4800.31	46.17	4800.33	47.3	4800.8	50.56	4802.26
53.9	4803.03	62.1	4804.66	65.24	4805.46	77.85	4809.89		

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
0	.057	30.64	.03	47.3	.2

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
30.64	47.3	5.18	4.9	5.44		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4799.63	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4799.59	Reach Len. (ft)	5.18	4.90

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5.44			
Crit W.S. (ft)		Flow Area (sq ft)	0.53
E.G. Slope (ft/ft)	0.015933	Area (sq ft)	0.53
Q Total (cfs)	0.77	Flow (cfs)	0.77
Top Width (ft)	4.68	Top Width (ft)	4.68
Vel Total (ft/s)	1.45	Avg. Vel. (ft/s)	1.45
Max Chl Dpth (ft)	0.23	Hydr. Depth (ft)	0.11
Conv. Total (cfs)	6.1	Conv. (cfs)	6.1
Length Wtd. (ft)	4.90	Wetted Per. (ft)	4.74
Min Ch El (ft)	4799.36	Shear (lb/sq ft)	0.11
Alpha	1.00	Stream Power (lb/ft s)	0.16
Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.20	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.38	Wt. n-Val.		0.030
0.000				
W.S. Elev (ft)	4800.82	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4800.75	Flow Area (sq ft)		15.23
0.00				
E.G. Slope (ft/ft)	0.011270	Area (sq ft)		15.23
0.00				
Q Total (cfs)	75.00	Flow (cfs)		75.00
0.00				
Top Width (ft)	16.41	Top Width (ft)		16.36
0.05				
Vel Total (ft/s)	4.92	Avg. Vel. (ft/s)		4.92
0.04				
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)		0.93
0.01				
Conv. Total (cfs)	706.5	Conv. (cfs)		706.5
0.0				
Length Wtd. (ft)	4.90	Wetted Per. (ft)		16.82
0.05				
Min Ch El (ft)	4799.36	Shear (lb/sq ft)		0.64
Alpha	1.00	Stream Power (lb/ft s)		3.14
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)		0.01
0.00				

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CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4802.82	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.62	Wt. n-Val.	0.057	0.030
0.200				
W.S. Elev (ft)	4802.20	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	3.28	38.20
2.19				
E.G. Slope (ft/ft)	0.005722	Area (sq ft)	3.28	38.20
2.19				
Q Total (cfs)	250.00	Flow (cfs)	4.75	244.33
0.92				
Top Width (ft)	24.83	Top Width (ft)	5.04	16.66
3.13				
Vel Total (ft/s)	5.72	Avg. Vel. (ft/s)	1.45	6.40
0.42				
Max Chl Dpth (ft)	2.84	Hydr. Depth (ft)	0.65	2.29
0.70				
Conv. Total (cfs)	3305.0	Conv. (cfs)	62.8	3230.0
12.1				
Length Wtd. (ft)	4.91	Wetted Per. (ft)	5.21	17.13
3.43				
Min Ch El (ft)	4799.36	Shear (lb/sq ft)	0.22	0.80
0.23				
Alpha	1.22	Stream Power (lb/ft s)	0.33	5.10
0.10				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.02
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.50	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.05	Wt. n-Val.	0.057	0.030
0.200				
W.S. Elev (ft)	4804.45	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	24.54	75.66
20.62				
E.G. Slope (ft/ft)	0.004204	Area (sq ft)	24.54	75.66
20.62				
Q Total (cfs)	725.00	Flow (cfs)	58.25	654.07
12.69				
Top Width (ft)	44.71	Top Width (ft)	14.30	16.66
13.74				
Vel Total (ft/s)	6.00	Avg. Vel. (ft/s)	2.37	8.65
0.62				
Max Chl Dpth (ft)	5.09	Hydr. Depth (ft)	1.72	4.54
1.50				
Conv. Total (cfs)	11181.3	Conv. (cfs)	898.3	10087.3
195.7				
Length Wtd. (ft)	4.93	Wetted Per. (ft)	14.74	17.13
14.28				
Min Ch El (ft)	4799.36	Shear (lb/sq ft)	0.44	1.16

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0.38				
Alpha	1.89	Stream Power (lb/ft s)	1.04	10.02
0.23				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.01	0.03
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.01				

CROSS SECTION

RIVER: Lower Big Doming
 REACH: A RS: 11.5*

INPUT

Description:

Station Elevation Data		num= 34							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4811.83	7.11	4807.03	9.41	4805.58	17.71	4804.1	18.21	4804.01
26.26	4801.97	30.77	4800.82	34.51	4799.81	35.71	4799.64	37.23	4799.56
37.56	4799.54	37.9	4799.73	38.41	4799.5	38.88	4799.46	39.57	4799.39
40.3	4799.29	41.11	4799.35	41.36	4799.42	41.67	4799.4	42.41	4799.45
42.54	4799.5	42.72	4799.48	42.92	4799.5	43.49	4799.6	44.01	4799.69
44.3	4799.78	45.71	4800.24	45.77	4800.27	46.85	4800.73	50.15	4802.24
53.54	4803	61.84	4804.67	65.03	4805.5	77.79	4809.75		

Manning's n Values		num= 3			
Sta	n Val	Sta	n Val	Sta	n Val
0	.055	30.77	.03	46.85	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	30.77	46.85		5.18	4.9	5.44	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4799.55	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4799.52	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.55
E.G. Slope (ft/ft)	0.014462	Area (sq ft)		0.55
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.69	Top Width (ft)		4.69
Vel Total (ft/s)	1.41	Avg. Vel. (ft/s)		1.41
Max Chl Dpth (ft)	0.23	Hydr. Depth (ft)		0.12
Conv. Total (cfs)	6.4	Conv. (cfs)		6.4
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.73
Min Ch El (ft)	4799.29	Shear (lb/sq ft)		0.10
Alpha	1.00	Stream Power (lb/ft s)		0.15

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Frctn Loss (ft)	0.07	Cum Volume (acre-ft)	0.00
C & E Loss (ft)	0.00	Cum SA (acres)	0.00

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.14	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.39	Wt. n-Val.		0.030
0.000				
W.S. Elev (ft)	4800.75	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4800.68	Flow Area (sq ft)		14.98
0.00				
E.G. Slope (ft/ft)	0.011438	Area (sq ft)		14.98
0.00				
Q Total (cfs)	75.00	Flow (cfs)		75.00
0.00				
Top Width (ft)	15.88	Top Width (ft)		15.83
0.05				
Vel Total (ft/s)	5.01	Avg. Vel. (ft/s)		5.01
0.04				
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)		0.95
0.01				
Conv. Total (cfs)	701.3	Conv. (cfs)		701.3
0.0				
Length Wtd. (ft)	4.90	Wetted Per. (ft)		16.31
0.05				
Min Ch El (ft)	4799.29	Shear (lb/sq ft)		0.66
Alpha	1.00	Stream Power (lb/ft s)		3.28
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)		0.00
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)		0.01
0.00				

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4802.79	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.65	Wt. n-Val.	0.055	0.030
0.200				
W.S. Elev (ft)	4802.14	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	3.41	37.26
2.17				
E.G. Slope (ft/ft)	0.005926	Area (sq ft)	3.41	37.26
2.17				
Q Total (cfs)	250.00	Flow (cfs)	5.25	243.83
0.92				
Top Width (ft)	24.33	Top Width (ft)	5.17	16.08
3.08				
Vel Total (ft/s)	5.84	Avg. Vel. (ft/s)	1.54	6.54
0.42				

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Max Chl Dpth (ft)	2.85	Hydr. Depth (ft)	0.66 2.32
0.70			
Conv. Total (cfs)	3247.5	Conv. (cfs)	68.2 3167.3
12.0			
Length Wtd. (ft)	4.91	Wetted Per. (ft)	5.34 16.57
3.38			
Min Ch El (ft)	4799.29	Shear (lb/sq ft)	0.24 0.83
0.24			
Alpha	1.23	Stream Power (lb/ft s)	0.36 5.44
0.10			
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00 0.01
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00 0.01
0.00			

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.48	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.10	Wt. n-Val.	0.055	0.030
0.200				
W.S. Elev (ft)	4804.38	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	25.01	73.28
20.23				
E.G. Slope (ft/ft)	0.004409	Area (sq ft)	25.01	73.28
20.23				
Q Total (cfs)	725.00	Flow (cfs)	62.94	649.36
12.70				
Top Width (ft)	44.24	Top Width (ft)	14.62	16.08
13.54				
Vel Total (ft/s)	6.12	Avg. Vel. (ft/s)	2.52	8.86
0.63				
Max Chl Dpth (ft)	5.09	Hydr. Depth (ft)	1.71	4.56
1.49				
Conv. Total (cfs)	10918.7	Conv. (cfs)	947.9	9779.5
191.3				
Length Wtd. (ft)	4.93	Wetted Per. (ft)	15.05	16.57
14.09				
Min Ch El (ft)	4799.29	Shear (lb/sq ft)	0.46	1.22
0.40				
Alpha	1.89	Stream Power (lb/ft s)	1.15	10.79
0.25				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.01	0.02
0.01				
C & E Loss (ft)	0.00	Cum SA (acres)	0.01	0.01
0.00				

CROSS SECTION

RIVER: Lower Big Doming
REACH: A RS: 11.3333*

INPUT

Description:

Station	Elevation	Data	num=	34	Sta	Elev	Sta	Elev	Sta	Elev
Sta	Elev	Sta	Elev		Sta	Elev	Sta	Elev	Sta	Elev

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0	4811.8	7.14	4806.93	9.45	4805.43	17.78	4803.99	18.29	4803.9
26.38	4801.89	30.9	4800.74	34.53	4799.69	35.7	4799.52	37.18	4799.45
37.49	4799.43	37.82	4799.64	38.32	4799.41	38.78	4799.37	39.44	4799.31
40.16	4799.23	40.93	4799.28	41.16	4799.33	41.46	4799.33	42.17	4799.38
42.29	4799.42	42.46	4799.4	42.65	4799.42	43.19	4799.52	43.7	4799.61
43.97	4799.7	45.31	4800.18	45.37	4800.2	46.4	4800.66	49.75	4802.21
53.17	4802.96	61.58	4804.69	64.81	4805.55	77.74	4809.6		

Manning's n	Values	num=	3
Sta	n Val	Sta	n Val
0	.053	30.9	.03
		46.4	.2

Bank Sta:	Left	Right	Lengths:	Left Channel	Right	Coeff	Contr.	Expan.
	30.9	46.4		5.18	4.9		.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4799.48	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4799.45	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)		0.54
E.G. Slope (ft/ft)	0.016005	Area (sq ft)		0.54
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	4.89	Top Width (ft)		4.89
Vel Total (ft/s)	1.43	Avg. Vel. (ft/s)		1.43
Max Chl Dpth (ft)	0.22	Hydr. Depth (ft)		0.11
Conv. Total (cfs)	6.1	Conv. (cfs)		6.1
Length Wtd. (ft)	4.90	Wetted Per. (ft)		4.93
Min Ch El (ft)	4799.23	Shear (lb/sq ft)		0.11
Alpha	1.00	Stream Power (lb/ft s)		0.16
Frctn Loss (ft)	0.08	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.09	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.39	Wt. n-Val.		0.030
0.000				
W.S. Elev (ft)	4800.69	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4800.61	Flow Area (sq ft)		14.87

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0.00			
E.G. Slope (ft/ft)	0.011272	Area (sq ft)	14.87
0.00			
Q Total (cfs)	75.00	Flow (cfs)	75.00
0.00			
Top Width (ft)	15.40	Top Width (ft)	15.33
0.07			
Vel Total (ft/s)	5.04	Avg. Vel. (ft/s)	5.04
0.05			
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)	0.97
0.02			
Conv. Total (cfs)	706.4	Conv. (cfs)	706.4
0.0			
Length Wtd. (ft)	4.90	Wetted Per. (ft)	15.84
0.07			
Min Ch El (ft)	4799.23	Shear (lb/sq ft)	0.66
Alpha	1.00	Stream Power (lb/ft s)	3.33
Frctn Loss (ft)	0.06	Cum Volume (acre-ft)	0.00
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4802.76	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.68	Wt. n-Val.	0.053	0.030
0.200				
W.S. Elev (ft)	4802.08	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	3.52	36.36
2.17				
E.G. Slope (ft/ft)	0.006119	Area (sq ft)	3.52	36.36
2.17				
Q Total (cfs)	250.00	Flow (cfs)	5.77	243.29
0.94				
Top Width (ft)	23.84	Top Width (ft)	5.27	15.50
3.06				
Vel Total (ft/s)	5.95	Avg. Vel. (ft/s)	1.64	6.69
0.43				
Max Chl Dpth (ft)	2.85	Hydr. Depth (ft)	0.67	2.35
0.71				
Conv. Total (cfs)	3195.9	Conv. (cfs)	73.7	3110.1
12.0				
Length Wtd. (ft)	4.91	Wetted Per. (ft)	5.44	16.02
3.38				
Min Ch El (ft)	4799.23	Shear (lb/sq ft)	0.25	0.87
0.25				
Alpha	1.23	Stream Power (lb/ft s)	0.40	5.80
0.11				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.00	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 4

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E.G. Elev (ft)	4805.46	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.15	Wt. n-Val.	0.053	0.030
0.200				
W.S. Elev (ft)	4804.31	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	25.46	70.95
19.96				
E.G. Slope (ft/ft)	0.004621	Area (sq ft)	25.46	70.95
19.96				
Q Total (cfs)	725.00	Flow (cfs)	67.86	644.31
12.83				
Top Width (ft)	43.80	Top Width (ft)	14.97	15.50
13.33				
Vel Total (ft/s)	6.23	Avg. Vel. (ft/s)	2.67	9.08
0.64				
Max Chl Dpth (ft)	5.08	Hydr. Depth (ft)	1.70	4.58
1.50				
Conv. Total (cfs)	10665.6	Conv. (cfs)	998.3	9478.6
188.8				
Length Wtd. (ft)	4.94	Wetted Per. (ft)	15.39	16.02
13.89				
Min Ch El (ft)	4799.23	Shear (lb/sq ft)	0.48	1.28
0.41				
Alpha	1.91	Stream Power (lb/ft s)	1.27	11.60
0.27				
Frctn Loss (ft)	0.02	Cum Volume (acre-ft)	0.01	0.01
0.00				
C & E Loss (ft)	0.01	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION

RIVER: Lower Big Doming
 REACH: A RS: 11.1666*

INPUT

Description:

Station Elevation Data		num= 34							
Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev	Sta	Elev
0	4811.77	7.17	4806.84	9.49	4805.28	17.86	4803.88	18.37	4803.79
26.49	4801.8	31.04	4800.66	34.55	4799.58	35.69	4799.4	37.12	4799.34
37.42	4799.32	37.75	4799.55	38.23	4799.31	38.67	4799.28	39.32	4799.22
40.01	4799.16	40.75	4799.21	40.97	4799.25	41.25	4799.25	41.92	4799.3
42.04	4799.33	42.2	4799.32	42.38	4799.34	42.9	4799.44	43.38	4799.52
43.64	4799.62	44.91	4800.12	44.97	4800.14	45.95	4800.59	49.34	4802.19
52.81	4802.93	61.33	4804.7	64.6	4805.59	77.69	4809.45		

Manning's n Values

num= 3

Sta	n Val	Sta	n Val	Sta	n Val
0	.052	31.04	.03	45.95	.2

Bank Sta: Left	Right	Lengths: Left	Channel	Right	Coeff	Contr.	Expan.
31.04	45.95	5.18	4.9	5.44	.1	.3	

CROSS SECTION OUTPUT Profile #PF 1

	lower_bigdominguezV2.rep			
E.G. Elev (ft)	4799.40	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4799.37	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4799.35	Flow Area (sq ft)		0.57
E.G. Slope (ft/ft)	0.015879	Area (sq ft)		0.57
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	5.63	Top Width (ft)		5.63
Vel Total (ft/s)	1.35	Avg. Vel. (ft/s)		1.35
Max Chl Dpth (ft)	0.21	Hydr. Depth (ft)		0.10
Conv. Total (cfs)	6.1	Conv. (cfs)		6.1
Length Wtd. (ft)	4.90	Wetted Per. (ft)		5.69
Min Ch El (ft)	4799.16	Shear (lb/sq ft)		0.10
Alpha	1.00	Stream Power (lb/ft s)		0.13
Frctn Loss (ft)	0.09	Cum Volume (acre-ft)		0.00
C & E Loss (ft)	0.00	Cum SA (acres)		0.00

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4801.03	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.41	Wt. n-Val.		0.030
0.000				
W.S. Elev (ft)	4800.62	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4800.55	Flow Area (sq ft)		14.57
0.00				
E.G. Slope (ft/ft)	0.011556	Area (sq ft)		14.57
0.00				
Q Total (cfs)	75.00	Flow (cfs)		75.00
0.00				
Top Width (ft)	14.84	Top Width (ft)		14.78
0.06				
Vel Total (ft/s)	5.15	Avg. Vel. (ft/s)		5.15
0.04				
Max Chl Dpth (ft)	1.46	Hydr. Depth (ft)		0.99
0.01				
Conv. Total (cfs)	697.7	Conv. (cfs)		697.7
0.0				
Length Wtd. (ft)	4.90	Wetted Per. (ft)		15.33
0.07				
Min Ch El (ft)	4799.16	Shear (lb/sq ft)		0.69
Alpha	1.00	Stream Power (lb/ft s)		3.53

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Frctn Loss (ft)	0.06	Cum Volume (acre-ft)	0.00
0.00			
C & E Loss (ft)	0.00	Cum SA (acres)	0.00
0.00			

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4802.72	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.72	Wt. n-Val.	0.052	0.030
0.200				
W.S. Elev (ft)	4802.01	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)	4801.72	Flow Area (sq ft)	3.61	35.23
2.12				
E.G. Slope (ft/ft)	0.006463	Area (sq ft)	3.61	35.23
2.12				
Q Total (cfs)	250.00	Flow (cfs)	6.23	242.83
0.94				
Top Width (ft)	23.29	Top Width (ft)	5.39	14.91
3.00				
Vel Total (ft/s)	6.10	Avg. Vel. (ft/s)	1.72	6.89
0.44				
Max Chl Dpth (ft)	2.84	Hydr. Depth (ft)	0.67	2.36
0.71				
Conv. Total (cfs)	3109.8	Conv. (cfs)	77.5	3020.6
11.7				
Length Wtd. (ft)	4.91	Wetted Per. (ft)	5.55	15.47
3.32				
Min Ch El (ft)	4799.16	Shear (lb/sq ft)	0.26	0.92
0.26				
Alpha	1.24	Stream Power (lb/ft s)	0.45	6.33
0.11				
Frctn Loss (ft)	0.04	Cum Volume (acre-ft)	0.00	0.00
0.00				
C & E Loss (ft)	0.03	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.43	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.23	Wt. n-Val.	0.052	0.030
0.200				
W.S. Elev (ft)	4804.20	Reach Len. (ft)	5.18	4.90
5.44				
Crit W.S. (ft)		Flow Area (sq ft)	25.42	67.96
19.10				
E.G. Slope (ft/ft)	0.005034	Area (sq ft)	25.42	67.96
19.10				
Q Total (cfs)	725.00	Flow (cfs)	71.63	640.70
12.66				
Top Width (ft)	42.98	Top Width (ft)	15.10	14.91
12.97				
Vel Total (ft/s)	6.45	Avg. Vel. (ft/s)	2.82	9.43
0.66				

	lower_bigdominguezV2.rep			
Max Chl Dpth (ft)	5.04	Hydr. Depth (ft)	1.68	4.56
1.47				
Conv. Total (cfs)	10218.3	Conv. (cfs)	1009.6	9030.2
178.5				
Length Wtd. (ft)	4.94	Wetted Per. (ft)	15.51	15.47
13.54				
Min Ch El (ft)	4799.16	Shear (lb/sq ft)	0.52	1.38
0.44				
Alpha	1.91	Stream Power (lb/ft s)	1.45	13.02
0.29				
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	0.00	0.01
0.00				
C & E Loss (ft)	0.04	Cum SA (acres)	0.00	0.00
0.00				

CROSS SECTION

RIVER: Lower Big Doming
REACH: A RS: 11

INPUT

Description: cross section E - furthest ds x sec of the reach

Station Elevation Data		num= 18			
Sta	Elev	Sta	Elev	Sta	Elev
04811.747	9.5324805.125	18.4454803.688	26.603 4801.71	31.1684800.582	
34.576 4799.46	35.6744799.284	37.3584799.218	37.6734799.462	38.1424799.215	
39.8654799.094	42.115 4799.26	43.0594799.443	44.5714800.077	45.5 4800.52	
48.934802.164	61.074804.712	77.6424809.305			

Manning's n Values		num= 3	
Sta	n Val	Sta	n Val
0	.05	31.168	.03
		45.5	.2

Bank Sta: Left	Right	Coeff Contr.	Expan.
31.168	45.5	.1	.3

CROSS SECTION OUTPUT Profile #PF 1

E.G. Elev (ft)	4799.32	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.03	Wt. n-Val.		0.030
W.S. Elev (ft)	4799.29	Reach Len. (ft)		
Crit W.S. (ft)	4799.29	Flow Area (sq ft)		0.54
E.G. Slope (ft/ft)	0.021190	Area (sq ft)		0.54
Q Total (cfs)	0.77	Flow (cfs)		0.77
Top Width (ft)	6.02	Top Width (ft)		6.02
Vel Total (ft/s)	1.43	Avg. Vel. (ft/s)		1.43
Max Chl Dpth (ft)	0.19	Hydr. Depth (ft)		0.09
Conv. Total (cfs)	5.3	Conv. (cfs)		5.3
Length Wtd. (ft)		Wetted Per. (ft)		6.08

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Min Ch El (ft)	4799.09	Shear (lb/sq ft)	0.12
Alpha	1.00	Stream Power (lb/ft s)	0.17
Frctn Loss (ft)		Cum Volume (acre-ft)	
C & E Loss (ft)		Cum SA (acres)	

Warning: Slope-Area method could not converge on a starting water surface elevation within the specified number of trials. The program used critical depth as the starting water surface.
Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #PF 2

E.G. Elev (ft)	4800.98	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.46	Wt. n-Val.		0.030
W.S. Elev (ft)	4800.52	Reach Len. (ft)		
Crit W.S. (ft)	4800.49	Flow Area (sq ft)		13.83
E.G. Slope (ft/ft)	0.013010	Area (sq ft)		13.83
Q Total (cfs)	75.00	Flow (cfs)		75.00
Top Width (ft)	14.13	Top Width (ft)		14.13
Vel Total (ft/s)	5.42	Avg. Vel. (ft/s)		5.42
Max Chl Dpth (ft)	1.42	Hydr. Depth (ft)		0.98
Conv. Total (cfs)	657.5	Conv. (cfs)		657.5
Length Wtd. (ft)		Wetted Per. (ft)		14.72
Min Ch El (ft)	4799.09	Shear (lb/sq ft)		0.76
Alpha	1.00	Stream Power (lb/ft s)		4.14
Frctn Loss (ft)		Cum Volume (acre-ft)		
C & E Loss (ft)		Cum SA (acres)		

CROSS SECTION OUTPUT Profile #PF 3

E.G. Elev (ft)	4802.66	Element	Left OB	Channel
Right OB				
Vel Head (ft)	0.98	Wt. n-Val.	0.050	0.030
0.200				
W.S. Elev (ft)	4801.68	Reach Len. (ft)		
Crit W.S. (ft)	4801.68	Flow Area (sq ft)	2.44	30.48

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1.40				
E.G. Slope (ft/ft)	0.010123	Area (sq ft)	2.44	30.48
1.40				
Q Total (cfs)	250.00	Flow (cfs)	4.80	244.52
0.68				
Top Width (ft)	21.20	Top Width (ft)	4.44	14.33
2.42				
Vel Total (ft/s)	7.28	Avg. Vel. (ft/s)	1.97	8.02
0.49				
Max Chl Dpth (ft)	2.59	Hydr. Depth (ft)	0.55	2.13
0.58				
Conv. Total (cfs)	2484.8	Conv. (cfs)	47.7	2430.4
6.8				
Length Wtd. (ft)		Wetted Per. (ft)	4.58	14.93
2.68				
Min Ch El (ft)	4799.09	Shear (lb/sq ft)	0.34	1.29
0.33				
Alpha	1.19	Stream Power (lb/ft s)	0.66	10.35
0.16				
Frctn Loss (ft)		Cum Volume (acre-ft)		
C & E Loss (ft)		Cum SA (acres)		

Warning: Slope too steep for slope area to converge during supercritical flow calculations (normal depth is below critical depth).
Water surface set to critical depth.

CROSS SECTION OUTPUT Profile #PF 4

E.G. Elev (ft)	4805.36	Element	Left OB	Channel
Right OB				
Vel Head (ft)	1.67	Wt. n-Val.	0.050	0.030
0.200				
W.S. Elev (ft)	4803.69	Reach Len. (ft)		
Crit W.S. (ft)	4803.69	Flow Area (sq ft)	19.75	59.35
13.65				
E.G. Slope (ft/ft)	0.007697	Area (sq ft)	19.75	59.35
13.65				
Q Total (cfs)	725.00	Flow (cfs)	67.60	647.28
10.12				
Top Width (ft)	37.82	Top Width (ft)	12.76	14.33
10.72				
Vel Total (ft/s)	7.82	Avg. Vel. (ft/s)	3.42	10.91
0.74				
Max Chl Dpth (ft)	4.60	Hydr. Depth (ft)	1.55	4.14
1.27				
Conv. Total (cfs)	8263.6	Conv. (cfs)	770.5	7377.8
115.3				
Length Wtd. (ft)		Wetted Per. (ft)	13.14	14.93
11.25				
Min Ch El (ft)	4799.09	Shear (lb/sq ft)	0.72	1.91
0.58				
Alpha	1.76	Stream Power (lb/ft s)	2.47	20.84
0.43				
Frctn Loss (ft)		Cum Volume (acre-ft)		
C & E Loss (ft)		Cum SA (acres)		

Warning: Slope too steep for slope area to converge during supercritical flow calculations (normal depth is below critical depth).
Water surface set to critical depth.

SUMMARY OF MANNING'S N VALUES

River: Lower Big Doming

Reach	River Sta.	n1	n2	n3
A	15	.08	.03	.2
A	14.75*	.08	.03	.2
A	14.5*	.08	.03	.2
A	14.25*	.08	.03	.2
A	14	.08	.03	.2
A	13.8333*	.078	.03	.2
A	13.6666*	.077	.03	.2
A	13.5*	.075	.03	.2
A	13.3333*	.073	.03	.2
A	13.1666*	.072	.03	.2
A	13.*	.07	.03	.2
A	12.8333*	.068	.03	.2
A	12.6666*	.067	.03	.2
A	12.5*	.065	.03	.2
A	12.3333*	.063	.03	.2
A	12.1666*	.062	.03	.2
A	12.*	.06	.03	.2
A	11.8333*	.058	.03	.2
A	11.6666*	.057	.03	.2
A	11.5*	.055	.03	.2
A	11.3333*	.053	.03	.2
A	11.1666*	.052	.03	.2
A	11	.05	.03	.2

SUMMARY OF REACH LENGTHS

River: Lower Big Doming

Reach	River Sta.	Left	Channel	Right
A	15	6.82	3.94	2.53
A	14.75*	6.82	3.94	2.53
A	14.5*	6.82	3.94	2.53
A	14.25*	6.83	3.94	2.53
A	14	5.18	4.9	5.44
A	13.8333*	5.18	4.9	5.44
A	13.6666*	5.18	4.9	5.44
A	13.5*	5.18	4.9	5.44
A	13.3333*	5.18	4.9	5.44
A	13.1666*	5.18	4.9	5.44
A	13.*	5.18	4.9	5.44
A	12.8333*	5.18	4.9	5.44
A	12.6666*	5.18	4.9	5.44
A	12.5*	5.18	4.9	5.44
A	12.3333*	5.18	4.9	5.44

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A	12.1666*	5.18	4.9	5.44
A	12.*	5.18	4.9	5.44
A	11.8333*	5.18	4.9	5.44
A	11.6666*	5.18	4.9	5.44
A	11.5*	5.18	4.9	5.44
A	11.3333*	5.18	4.9	5.44
A	11.1666*	5.18	4.9	5.44
A	11			

SUMMARY OF CONTRACTION AND EXPANSION COEFFICIENTS
River: Lower Big Doming

Reach	River Sta.	Contr.	Expan.
A	15	.1	.3
A	14.75*	.1	.3
A	14.5*	.1	.3
A	14.25*	.1	.3
A	14	.1	.3
A	13.8333*	.1	.3
A	13.6666*	.1	.3
A	13.5*	.1	.3
A	13.3333*	.1	.3
A	13.1666*	.1	.3
A	13.*	.1	.3
A	12.8333*	.1	.3
A	12.6666*	.1	.3
A	12.5*	.1	.3
A	12.3333*	.1	.3
A	12.1666*	.1	.3
A	12.*	.1	.3
A	11.8333*	.1	.3
A	11.6666*	.1	.3
A	11.5*	.1	.3
A	11.3333*	.1	.3
A	11.1666*	.1	.3
A	11	.1	.3

Profile Output Table - Standard Table 1

Reach E.G. Elev (ft)	River Sta E.G. Slope (ft/ft)	Profile Vel Chnl (ft/s)	Q Total Flow Area (cfs) (sq ft)	Min Ch El Top Width (ft)	W.S. Elev Froude # Chl (ft)	Crit W.S. (ft)
A	15	PF 1	0.77	4800.37	4800.68	4800.55
4800.69	0.002567	0.83	0.93	4.83	0.33	
A	15	PF 2	75.00	4800.37	4801.97	4801.89
4802.31	0.010617	4.63	16.35	19.68	0.87	
A	15	PF 3	250.00	4800.37	4802.79	4802.87
4803.75	0.013010	7.93	34.23	24.37	1.07	
A	15	PF 4	725.00	4800.37	4804.23	4804.68
4806.37	0.012999	11.97	79.25	37.83	1.19	
A	14.75*	PF 1	0.77	4800.35	4800.66	

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4800.68	0.003101	0.89	0.87	4.71	0.36	
A	14.75*	PF 2	75.00	4800.35	4801.95	4801.85
4802.25	0.010375	4.45	16.95	20.94	0.85	
A	14.75*	PF 3	250.00	4800.35	4802.56	4802.79
4803.68	0.018452	8.54	30.84	24.56	1.25	
A	14.75*	PF 4	725.00	4800.35	4804.74	4804.50
4806.06	0.006627	9.44	104.52	44.34	0.87	
A	14.5*	PF 1	0.77	4800.33	4800.65	
4800.66	0.004213	0.97	0.80	4.71	0.41	
A	14.5*	PF 2	75.00	4800.33	4801.91	4801.81
4802.21	0.010657	4.35	17.27	22.05	0.86	
A	14.5*	PF 3	250.00	4800.33	4802.45	4802.72
4803.60	0.020846	8.59	30.20	25.43	1.31	
A	14.5*	PF 4	725.00	4800.33	4804.91	
4805.95	0.004954	8.38	116.92	46.64	0.76	
A	14.25*	PF 1	0.77	4800.32	4800.62	
4800.64	0.006634	1.13	0.68	4.48	0.51	
A	14.25*	PF 2	75.00	4800.32	4801.86	4801.78
4802.16	0.011206	4.37	17.19	22.42	0.87	
A	14.25*	PF 3	250.00	4800.32	4802.40	4802.65
4803.50	0.021468	8.42	30.57	26.62	1.31	
A	14.25*	PF 4	725.00	4800.32	4805.01	
4805.88	0.004000	7.64	126.80	48.37	0.68	
A	14	PF 1	0.77	4800.30	4800.57	
4800.60	0.013877	1.48	0.52	3.97	0.72	
A	14	PF 2	75.00	4800.30	4801.76	4801.75
4802.11	0.014693	4.74	15.82	21.93	0.98	
A	14	PF 3	250.00	4800.30	4802.38	4802.59
4803.40	0.020775	8.11	31.57	27.94	1.28	
A	14	PF 4	725.00	4800.30	4805.09	
4805.83	0.003356	7.05	135.33	49.83	0.63	
A	13.8333*	PF 1	0.77	4800.23	4800.50	
4800.53	0.014351	1.50	0.52	3.94	0.73	
A	13.8333*	PF 2	75.00	4800.23	4801.69	4801.67
4802.04	0.014393	4.73	15.85	21.74	0.98	
A	13.8333*	PF 3	250.00	4800.23	4802.72	4802.53
4803.30	0.007925	6.12	43.22	30.02	0.83	
A	13.8333*	PF 4	725.00	4800.23	4805.06	
4805.80	0.003326	7.10	135.30	49.66	0.62	
A	13.6666*	PF 1	0.77	4800.16	4800.43	
4800.47	0.013366	1.46	0.53	3.94	0.71	
A	13.6666*	PF 2	75.00	4800.16	4801.62	4801.60
4801.97	0.014351	4.76	15.77	21.41	0.98	
A	13.6666*	PF 3	250.00	4800.16	4802.68	
4803.26	0.007609	6.10	43.45	29.59	0.82	
A	13.6666*	PF 4	725.00	4800.16	4805.02	
4805.78	0.003327	7.16	134.92	49.49	0.63	
A	13.5*	PF 1	0.77	4800.10	4800.36	
4800.40	0.014640	1.51	0.51	3.92	0.74	
A	13.5*	PF 2	75.00	4800.10	4801.55	4801.53
4801.90	0.014045	4.76	15.76	21.06	0.97	

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A	13.5*	PF 3	250.00	4800.10	4802.64
4803.21	0.007329	6.10	43.63	29.16	0.81
A	13.5*	PF 4	725.00	4800.10	4804.99
4805.76	0.003325	7.22	134.59	49.30	0.63
A	13.3333*	PF 1	0.77	4800.03	4800.29
4800.33	0.013705	1.48	0.52	3.91	0.71
A	13.3333*	PF 2	75.00	4800.03	4801.48
4801.83	0.013926	4.78	15.68	20.68	0.97
A	13.3333*	PF 3	250.00	4800.03	4802.61
4803.17	0.006982	6.07	43.99	28.77	0.79
A	13.3333*	PF 4	725.00	4800.03	4804.96
4805.74	0.003331	7.29	134.07	48.85	0.63
A	13.1666*	PF 1	0.77	4799.96	4800.23
4800.26	0.013555	1.47	0.52	3.95	0.71
A	13.1666*	PF 2	75.00	4799.96	4801.41
4801.77	0.013746	4.80	15.63	20.32	0.96
A	13.1666*	PF 3	250.00	4799.96	4802.57
4803.13	0.006647	6.04	44.36	28.40	0.78
A	13.1666*	PF 4	725.00	4799.96	4804.92
4805.72	0.003355	7.38	133.34	48.36	0.63
A	13.*	PF 1	0.77	4799.90	4800.16
4800.19	0.014328	1.49	0.52	3.96	0.73
A	13.*	PF 2	75.00	4799.90	4801.34
4801.70	0.013369	4.79	15.64	19.95	0.95
A	13.*	PF 3	250.00	4799.90	4802.54
4803.10	0.006381	6.03	44.63	28.02	0.77
A	13.*	PF 4	725.00	4799.90	4804.88
4805.70	0.003373	7.46	132.80	47.95	0.64
A	12.8333*	PF 1	0.77	4799.83	4800.09
4800.12	0.014401	1.49	0.52	4.02	0.73
A	12.8333*	PF 2	75.00	4799.83	4801.27
4801.63	0.013104	4.81	15.60	19.54	0.95
A	12.8333*	PF 3	250.00	4799.83	4802.51
4803.06	0.006113	6.02	44.93	27.69	0.75
A	12.8333*	PF 4	725.00	4799.83	4804.85
4805.67	0.003404	7.55	132.07	47.57	0.64
A	12.6666*	PF 1	0.77	4799.76	4800.02
4800.05	0.014622	1.49	0.52	4.04	0.74
A	12.6666*	PF 2	75.00	4799.76	4801.21
4801.57	0.012926	4.83	15.52	19.11	0.94
A	12.6666*	PF 3	250.00	4799.76	4802.47
4803.03	0.005947	6.03	45.01	27.29	0.75
A	12.6666*	PF 4	725.00	4799.76	4804.80
4805.65	0.003464	7.67	130.93	47.14	0.65
A	12.5*	PF 1	0.77	4799.69	4799.95
4799.98	0.013609	1.45	0.53	4.13	0.71
A	12.5*	PF 2	75.00	4799.69	4801.14
4801.50	0.012615	4.84	15.51	18.71	0.94
A	12.5*	PF 3	250.00	4799.69	4802.44
4802.99	0.005722	6.03	45.30	26.97	0.74
A	12.5*	PF 4	725.00	4799.69	4804.76

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		7.77	130.12	46.83	0.65	
4805.63	0.003512					
A	12.3333*	PF 1	0.77	4799.63	4799.88	
4799.91	0.014511	1.48	0.52	4.14	0.73	
A	12.3333*	PF 2	75.00	4799.63	4801.08	4801.02
4801.44	0.012090	4.82	15.57	18.31	0.92	
A	12.3333*	PF 3	250.00	4799.63	4802.40	
4802.96	0.005643	6.07	45.14	26.50	0.73	
A	12.3333*	PF 4	725.00	4799.63	4804.70	
4805.60	0.003604	7.92	128.61	46.47	0.66	
A	12.1666*	PF 1	0.77	4799.56	4799.81	
4799.84	0.014617	1.46	0.53	4.30	0.73	
A	12.1666*	PF 2	75.00	4799.56	4801.01	4800.95
4801.38	0.011821	4.83	15.53	17.86	0.91	
A	12.1666*	PF 3	250.00	4799.56	4802.35	
4802.93	0.005568	6.12	45.05	26.12	0.73	
A	12.1666*	PF 4	725.00	4799.56	4804.64	
4805.58	0.003732	8.08	126.82	46.08	0.67	
A	12.*	PF 1	0.77	4799.49	4799.74	
4799.77	0.014102	1.43	0.54	4.41	0.72	
A	12.*	PF 2	75.00	4799.49	4800.95	4800.88
4801.32	0.011704	4.87	15.40	17.34	0.91	
A	12.*	PF 3	250.00	4799.49	4802.31	
4802.89	0.005557	6.19	44.74	25.69	0.73	
A	12.*	PF 4	725.00	4799.49	4804.58	
4805.55	0.003867	8.25	124.86	45.59	0.69	
A	11.8333*	PF 1	0.77	4799.43	4799.67	
4799.70	0.014556	1.42	0.54	4.63	0.73	
A	11.8333*	PF 2	75.00	4799.43	4800.89	4800.81
4801.26	0.011421	4.89	15.35	16.90	0.90	
A	11.8333*	PF 3	250.00	4799.43	4802.26	
4802.86	0.005627	6.28	44.24	25.27	0.74	
A	11.8333*	PF 4	725.00	4799.43	4804.52	
4805.53	0.004005	8.43	123.12	45.21	0.70	
A	11.6666*	PF 1	0.77	4799.36	4799.59	
4799.63	0.015933	1.45	0.53	4.68	0.76	
A	11.6666*	PF 2	75.00	4799.36	4800.82	4800.75
4801.20	0.011270	4.92	15.23	16.41	0.90	
A	11.6666*	PF 3	250.00	4799.36	4802.20	
4802.82	0.005722	6.40	43.68	24.83	0.74	
A	11.6666*	PF 4	725.00	4799.36	4804.45	
4805.50	0.004204	8.65	120.81	44.71	0.71	
A	11.5*	PF 1	0.77	4799.29	4799.52	
4799.55	0.014462	1.41	0.55	4.69	0.73	
A	11.5*	PF 2	75.00	4799.29	4800.75	4800.68
4801.14	0.011438	5.01	14.98	15.88	0.91	
A	11.5*	PF 3	250.00	4799.29	4802.14	
4802.79	0.005926	6.54	42.83	24.33	0.76	
A	11.5*	PF 4	725.00	4799.29	4804.38	
4805.48	0.004409	8.86	118.52	44.24	0.73	

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A	11.3333*	PF 1	0.77	4799.23	4799.45	
4799.48	0.016005	1.43	0.54	4.89	0.76	
A	11.3333*	PF 2	75.00	4799.23	4800.69	4800.61
4801.09	0.011272	5.04	14.88	15.40	0.90	
A	11.3333*	PF 3	250.00	4799.23	4802.08	
4802.76	0.006119	6.69	42.05	23.84	0.77	
A	11.3333*	PF 4	725.00	4799.23	4804.31	
4805.46	0.004621	9.08	116.37	43.80	0.75	
A	11.1666*	PF 1	0.77	4799.16	4799.37	4799.35
4799.40	0.015879	1.35	0.57	5.63	0.75	
A	11.1666*	PF 2	75.00	4799.16	4800.62	4800.55
4801.03	0.011556	5.15	14.57	14.84	0.91	
A	11.1666*	PF 3	250.00	4799.16	4802.01	4801.72
4802.72	0.006463	6.89	40.96	23.29	0.79	
A	11.1666*	PF 4	725.00	4799.16	4804.20	
4805.43	0.005034	9.43	112.48	42.98	0.78	
A	11	PF 1	0.77	4799.09	4799.29	4799.29
4799.32	0.021190	1.43	0.54	6.02	0.84	
A	11	PF 2	75.00	4799.09	4800.52	4800.49
4800.98	0.013010	5.42	13.83	14.13	0.97	
A	11	PF 3	250.00	4799.09	4801.68	4801.68
4802.66	0.010123	8.02	34.33	21.20	0.97	
A	11	PF 4	725.00	4799.09	4803.69	4803.69
4805.36	0.007697	10.91	92.75	37.82	0.94	

Profile Output Table - Standard Table 2

Reach Loss	C & E Loss	River Sta Q Left	Profile Q Channel	E.G. Elev Q Right	W.S. Elev Top Width	Vel Head	Frctn
(ft)	(ft)	(cfs)	(cfs)	(ft) (cfs)	(ft) (ft)	(ft)	
A	15		PF 1	4800.69	4800.68	0.01	
0.01	0.00		0.77	4.83			
A	15		PF 2	4802.31	4801.97	0.33	
0.04	0.01	0.01	74.97	0.02	19.68		
A	15		PF 3	4803.75	4802.79	0.97	
	1.70		247.40	0.90	24.37		
A	15		PF 4	4806.37	4804.23	2.13	
	20.27		694.06	10.67	37.83		
A	14.75*		PF 1	4800.68	4800.66	0.01	
0.01	0.00		0.77	4.71			
A	14.75*		PF 2	4802.25	4801.95	0.31	
0.04	0.00	0.00	74.99	0.01	20.94		
A	14.75*		PF 3	4803.68	4802.56	1.13	
0.06	0.02	0.84	248.60	0.55	24.56		
A	14.75*		PF 4	4806.06	4804.74	1.32	
0.02	0.08	23.43	688.65	12.92	44.34		
A	14.5*		PF 1	4800.66	4800.65	0.01	
0.02	0.00		0.77	4.71			
A	14.5*		PF 2	4802.21	4801.91	0.29	

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0.04	0.00		74.99	0.01	22.05	
A	14.5*		PF 3	4803.60	4802.45	1.14
0.08	0.00	0.48	249.13	0.39	25.43	
A	14.5*		PF 4	4805.95	4804.91	1.04
0.02	0.05	22.96	689.08	12.96	46.64	
A	14.25*		PF 1	4800.64	4800.62	0.02
0.04	0.00		0.77		4.48	
A	14.25*		PF 2	4802.16	4801.86	0.30
0.05	0.01		75.00	0.00	22.42	
A	14.25*		PF 3	4803.50	4802.40	1.10
0.08	0.01	0.30	249.39	0.31	26.62	
A	14.25*		PF 4	4805.88	4805.01	0.86
0.01	0.04	22.40	690.09	12.51	48.37	
A	14		PF 1	4800.60	4800.57	0.03
0.07	0.00		0.77		3.97	
A	14		PF 2	4802.11	4801.76	0.35
0.07	0.00		75.00		21.93	
A	14		PF 3	4803.40	4802.38	1.02
0.08	0.02	0.20	249.55	0.25	27.94	
A	14		PF 4	4805.83	4805.09	0.74
0.02	0.00	21.58	691.60	11.81	49.83	
A	13.8333*		PF 1	4800.53	4800.50	0.03
0.07	0.00		0.77		3.94	
A	13.8333*		PF 2	4802.04	4801.69	0.35
0.07	0.00		75.00		21.74	
A	13.8333*		PF 3	4803.30	4802.72	0.58
0.04	0.00	0.95	248.43	0.63	30.02	
A	13.8333*		PF 4	4805.80	4805.06	0.74
0.02	0.00	23.27	689.93	11.80	49.66	
A	13.6666*		PF 1	4800.47	4800.43	0.03
0.07	0.00		0.77		3.94	
A	13.6666*		PF 2	4801.97	4801.62	0.35
0.07	0.00		75.00		21.41	
A	13.6666*		PF 3	4803.26	4802.68	0.57
0.04	0.00	1.08	248.29	0.64	29.59	
A	13.6666*		PF 4	4805.78	4805.02	0.76
0.02	0.00	24.84	688.40	11.75	49.49	
A	13.5*		PF 1	4800.40	4800.36	0.04
0.07	0.00		0.77		3.92	
A	13.5*		PF 2	4801.90	4801.55	0.35
0.07	0.00		75.00		21.06	
A	13.5*		PF 3	4803.21	4802.64	0.57
0.04	0.00	1.21	248.14	0.65	29.16	
A	13.5*		PF 4	4805.76	4804.99	0.77
0.02	0.00	26.89	686.35	11.76	49.30	
A	13.3333*		PF 1	4800.33	4800.29	0.03
0.07	0.00		0.77		3.91	
A	13.3333*		PF 2	4801.83	4801.48	0.36
0.07	0.00		75.00		20.68	
A	13.3333*		PF 3	4803.17	4802.61	0.57
0.03	0.00	1.41	247.92	0.66	28.77	

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A	13.3333*	PF 4	4805.74	4804.96	0.78
0.02	0.00 29.06	684.11	11.83	48.85	
A	13.1666*	PF 1	4800.26	4800.23	0.03
0.07	0.00	0.77		3.95	
A	13.1666*	PF 2	4801.77	4801.41	0.36
0.07	0.00	75.00		20.32	
A	13.1666*	PF 3	4803.13	4802.57	0.56
0.03	0.00 1.61	247.71	0.69	28.40	
A	13.1666*	PF 4	4805.72	4804.92	0.80
0.02	0.00 30.80	682.25	11.95	48.36	
A	13.*	PF 1	4800.19	4800.16	0.03
0.07	0.00	0.77		3.96	
A	13.*	PF 2	4801.70	4801.34	0.36
0.06	0.00	75.00		19.95	
A	13.*	PF 3	4803.10	4802.54	0.56
0.03	0.00 1.86	247.44	0.71	28.02	
A	13.*	PF 4	4805.70	4804.88	0.81
0.02	0.00 33.37	679.55	12.08	47.95	
A	12.8333*	PF 1	4800.12	4800.09	0.03
0.07	0.00	0.77		4.02	
A	12.8333*	PF 2	4801.63	4801.27	0.36
0.06	0.00	75.00		19.54	
A	12.8333*	PF 3	4803.06	4802.51	0.56
0.03	0.00 2.14	247.12	0.74	27.69	
A	12.8333*	PF 4	4805.67	4804.85	0.83
0.02	0.00 36.12	676.67	12.21	47.57	
A	12.6666*	PF 1	4800.05	4800.02	0.03
0.07	0.00	0.77		4.04	
A	12.6666*	PF 2	4801.57	4801.21	0.36
0.06	0.00	75.00		19.11	
A	12.6666*	PF 3	4803.03	4802.47	0.56
0.03	0.00 2.41	246.83	0.76	27.29	
A	12.6666*	PF 4	4805.65	4804.80	0.85
0.02	0.00 38.41	674.34	12.25	47.14	
A	12.5*	PF 1	4799.98	4799.95	0.03
0.07	0.00	0.77		4.13	
A	12.5*	PF 2	4801.50	4801.14	0.36
0.06	0.00	75.00		18.71	
A	12.5*	PF 3	4802.99	4802.44	0.56
0.03	0.00 2.78	246.43	0.80	26.97	
A	12.5*	PF 4	4805.63	4804.76	0.87
0.02	0.00 41.50	671.08	12.42	46.83	
A	12.3333*	PF 1	4799.91	4799.88	0.03
0.07	0.00	0.77		4.14	
A	12.3333*	PF 2	4801.44	4801.08	0.36
0.06	0.00	75.00		18.31	
A	12.3333*	PF 3	4802.96	4802.40	0.56
0.03	0.00 3.12	246.06	0.82	26.50	
A	12.3333*	PF 4	4805.60	4804.70	0.90
0.02	0.00 44.61	667.89	12.50	46.47	

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A	12.1666*	PF 1	4799.84	4799.81	0.03
0.07	0.00	0.77		4.30	
A	12.1666*	PF 2	4801.38	4801.01	0.36
0.06	0.00	75.00		17.86	
A	12.1666*	PF 3	4802.93	4802.35	0.57
0.03	0.00 3.48	245.67	0.85	26.12	
A	12.1666*	PF 4	4805.58	4804.64	0.94
0.02	0.00 47.22	665.23	12.55	46.08	

A	12.*	PF 1	4799.77	4799.74	0.03
0.07	0.00	0.77		4.41	
A	12.*	PF 2	4801.32	4800.95	0.37
0.06	0.00	75.00		17.34	
A	12.*	PF 3	4802.89	4802.31	0.58
0.03	0.00 3.87	245.25	0.88	25.69	
A	12.*	PF 4	4805.55	4804.58	0.97
0.02	0.00 50.87	661.58	12.55	45.59	

A	11.8333*	PF 1	4799.70	4799.67	0.03
0.07	0.00	0.77		4.63	
A	11.8333*	PF 2	4801.26	4800.89	0.37
0.06	0.00	75.00	0.00	16.90	
A	11.8333*	PF 3	4802.86	4802.26	0.60
0.03	0.00 4.33	244.77	0.90	25.27	
A	11.8333*	PF 4	4805.53	4804.52	1.01
0.02	0.00 54.96	657.39	12.65	45.21	

A	11.6666*	PF 1	4799.63	4799.59	0.03
0.07	0.00	0.77		4.68	
A	11.6666*	PF 2	4801.20	4800.82	0.38
0.06	0.00	75.00	0.00	16.41	
A	11.6666*	PF 3	4802.82	4802.20	0.62
0.03	0.00 4.75	244.33	0.92	24.83	
A	11.6666*	PF 4	4805.50	4804.45	1.05
0.02	0.00 58.25	654.07	12.69	44.71	

A	11.5*	PF 1	4799.55	4799.52	0.03
0.07	0.00	0.77		4.69	
A	11.5*	PF 2	4801.14	4800.75	0.39
0.06	0.00	75.00	0.00	15.88	
A	11.5*	PF 3	4802.79	4802.14	0.65
0.03	0.00 5.25	243.83	0.92	24.33	
A	11.5*	PF 4	4805.48	4804.38	1.10
0.02	0.00 62.94	649.36	12.70	44.24	

A	11.3333*	PF 1	4799.48	4799.45	0.03
0.08	0.00	0.77		4.89	
A	11.3333*	PF 2	4801.09	4800.69	0.39
0.06	0.00	75.00	0.00	15.40	
A	11.3333*	PF 3	4802.76	4802.08	0.68
0.03	0.00 5.77	243.29	0.94	23.84	
A	11.3333*	PF 4	4805.46	4804.31	1.15
0.02	0.01 67.86	644.31	12.83	43.80	

A	11.1666*	PF 1	4799.40	4799.37	0.03
0.09	0.00	0.77		5.63	

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A	11.1666*	PF 2	4801.03	4800.62	0.41
0.06	0.00	75.00	0.00	14.84	
A	11.1666*	PF 3	4802.72	4802.01	0.72
0.04	0.03	6.23	242.83	0.94	23.29
A	11.1666*	PF 4	4805.43	4804.20	1.23
0.03	0.04	71.63	640.70	12.66	42.98
A	11	PF 1	4799.32	4799.29	0.03
		0.77		6.02	
A	11	PF 2	4800.98	4800.52	0.46
		75.00		14.13	
A	11	PF 3	4802.66	4801.68	0.98
	4.80	244.52	0.68	21.20	
A	11	PF 4	4805.36	4803.69	1.67
	67.60	647.28	10.12	37.82	