



Cross Section Survey Data Sheet

Date / Time: 7-23-14
 River: Little Townsend trib
 Cross Section: XS 1-5
 Length: Trimble pts at each end of each X-sec - calc length in GIS.

Crew: RET, CUB, MDH, RAV
 Northing / Lat: 3226211.6 (XS1R)
 Easting / Long: 1868766.1 (XS1R)
 Est. Q (cfs): 150-180 cfs
 Comments: CTRM 184.0. See MDH fieldbook for further notes.

Point	BS (+)	HI	FS (-)	Elev	Notes
1L	7.95			100.00	Assumed
Ins 1		107.95			
XS1R			9.84	98.11	
XS5L			2.11	105.84	
XS5R			2.48	105.47	

XS-16

Station	Rod	Depth	Elevation	Description	Notes
60	7.95			B+C	
60	8.47			grad	
16.2	10.93			to B	
19.2	14.48			LEW	
22	16.85				LT to RT
24	17.35				
26	17.41				
28	15.98				
30	16.27				
32	16.80				
34	16.04				
36	16.58				
38	17.06				
40	17.03				
42	17.02				
44	16.85				
46	17.50				
48	16.93				
50	17.04				
52	17.11				
54	17.07				
56	16.64				
58	15.95			REW	
62	11.47			POB point on	
68	10.86			to B	
71	10.54			grad BC	
71	9.85			B+C	

SUSITNA-WATANA HYDRO

Efficient, reliable energy for the next 100 years.

Provisional data subject to revision



Date / Time:

7-23-14

River:

Little Kusena

Cross Section:

2

Station	Rod	Depth	Elevation	Description	Notes
81.10	10.00			to B	Start Blks Rt to Lt
72.6	11.14			POB	
68.0	13.59			REW	
78	14.93				
76	15.20				
74	14.99				
76	15.15				
78	15.13				
80	15.12				
82	15.24				
84	14.56				
86	14.65				
88	15.32				
90	15.02				
92	14.81				
94	14.85				
96	14.58				
98	15.84				
100	15.84				
102	15.57				
104	15.10				
106	13.85				
108	14.72				
110	14.96				

Photo Log

Photo #	Description
8530	view d/s of surveyed reach @ XS5
8551	view u/s through surveyed reach from d/s of XS1
8552	TR → TL - XS 1
8553	TR → TL - XS 2
8554	TR → TL - XS 3
8555	TR → TL - XS 4
8556	TR → TL - XS 5
8557	view d/s of TRB - boulder armor along TRB
8558	view of TLB

Comments:



Cross Section Survey Data Sheet

Date / Time: 7-23-14
 River: Little TSV @ PBM 184.0
 Cross Section: X51-X55
 Length: Calc length in GIS

Crew: DET, CVP, MDH, RAV
 Northing / Lat: 3226211.6 (XS1R)
 Easting / Long: 1868766.1 (XS1R)
 Est. Q (cfs) 150-180 cfs
 Comments:

Point	BS (+)	HI	FS (-)	Elev	Notes

24
(2 cont)

Station	Rod	Depth	Elevation	Description	Notes
112	14.40				
114 22	14.58				
116 21.4	14.11			LEW	
118	7.87				
16.5	7.91			TOB - vertical	bank
580.5	5.89			+0.13	Lt to Rt
75.2	6.26				
71	12.43			RFW	
69	13.23				
67	13.68				
65	13.48				
63	13.40				
61	13.37				
59	13.34				
57	12.85				
55	14.03				
53	13.94				
51	13.73				
49	13.05				
47	13.72				
45	13.66				
43	13.33				
41	12.71				
39	13.59				
37	12.84				
35	13.107				
33	12.83				
31	13.40				
29	13.26				
27	13.15				



Date / Time: 7-23-14
 River: Little Tsusena
 Cross Section: 3, 4

Station	Rod	Depth	Elevation	Description	Notes
25	13.40				
23	13.14				
21	12.65				
18.3	12.34			REW	
15.6	11.71			POB	
12	9.60			TOB POB	
5.5	6.04			TOB	
X 14	7.35			TOB	RT to LT
19	8.88			TOB	
28	11.46			POB	
30	11.55			REW	
32	11.73				
34	11.74				
36	12.28				
38	12.39				
40	12.05				
42	12.84				
44	13.03				
46	12.94				
48	17.06				
50	13.03				
52	13.05				
54	11.09				

XS4

Photo Log

Photo #	Description

Comments:



Cross Section Survey Data Sheet

Date / Time: 7-23-14
 River: Little Tuzena @ PRM 184.0
 Cross Section: 4.5
 Length: Calc length in GIS

Crew: RET, CVB, MDH, PAV
 Northing / Lat: 3226211.6 (XSIR)
 Easting / Long: 1868766.1 (XSIR)
 Est. Q (cfs) 150-180 CFS
 Comments:

CLOSING LOOP

Point	BS (+)	HI	FS (-)	Elev	Notes
XS5R	2.39			105.47	(TURN POINT)
XS5L	2.02				
INST 2		107.86			
XS5L	2.02			105.84 ✓ OK	CLOSED
XSIL	7.86			100.00 ✓ OK	
XSIR	9.75			98.11 ✓ OK	

154 cont.

Station	Rod	Depth	Elevation	Description	Notes
56	12.14				
58	13.105				
60	13.08				
62	13.71				
64	14.00				
66	13.81				
68	13.25				
70	14.04				
72	13.96				
74	13.79				
76	13.52				
78	11.04				
79.4	11.68			LEW	
85	5.00			+OB	
90	4.66			Flood Plw	
4	2.11			B/C 5L	
4	2.66			grid @ B/C	
7	3.10			+OB	
14.5	9.48			POB	
18.5	10.99			LEW	
20	11.85				
22	12.60				
24	12.94				
26	12.65				
28	11.68				
30	11.91				
32	11.54				
34	13.12				
36	12.71				
38	12.60				

Lt to Rt
~~Rt to Lt~~

XS-5



Date / Time: 7-23-14
 River: Little Tsvsca
 Cross Section: 5

Station	Rod	Depth	Elevation	Description	Notes
40	12.68				
42	11.76				
44	12.42				
46	12.00				
48	12.19				
50	11.80				
52	11.59			REW	
54	10.96			REW REW	
62.5	9.99			DOB	
71.5	9.32			POB	
72.0	2.88			Ground at Pin & Cap	
92.0	2.48			Top of Pin & Cap	
X55R	2.39			TP on X55R	← MOVED INST
INST 2					
X55L	2.02				
X51L	7.86				

Photo Log

Photo #	Description

Comments:
