



TETRA TECH

UNDER ICE BED PHOTO SAMPLING

SUSITNA-WATANA
HYDROELECTRIC PROJECT

Date & Time: 4-1-14 14:45

Crew: BT, MP

Sheet 1 of 3

Location: PRM 185.4

Weather: Clear

Camera: Camera #2, ZOPIC #2

GPS Unit: PDX

Comments: Ice appears nearly black, but cuts clean with no dirt.
photo # 0373 data looking upstream 0374 view dastan & hole 0375 left bank looking Rt
0376 Rt Bank side of chan looking Lt. #0377-0379 Aerial Views (M)

(A) Sample #	(B) GPS Point #	(D) Snow Depth (ft)	(E) Ice Thickness (ft)	(F) Top of Ice to Bed Distance (ft)	(G) Flow Depth (F - E) (ft)	(H) Frazil Ice Present?	(I) Anchor Ice Present?	(J) Freeboard Height (ft)	(K) Camera Height above Bed (ft)	(L) Video #	(M) Comments / Bed Description
1	S1	2"	1.8	56		Y	N	0	3	40	
2	S2	2"	.9	58		Y	N	.1	3	41	
3	S3	2"	1.2	58		Y	N	.1	3	42	
4	S4	2"	1.5	59		Y	N	0	3	43	
5	S5	2"	1.8	63		Y	N	.2	3	44	
6	S6	2"	2.2	58		Y	N	.2	3	45	
7	S7	2"	1.8	56		Y	N	-.1	3	46	hole overflowing
8	S8	2"	1.6	58		Y	N	.1	3	47	
9	S9	2"	1.5	60		Y	N	.1	3	48	
10	S10	2"	1.6	60		Y	N	.2	3	49	
11	S11	2"	2.1	60		Y	N	.2	3	50	
12	S12	2"	2.2	57		Y	N	.1	3	51	Unusable, hole too shallow
13	S13	2"	1.9	59		Y	N	.1	3	52	
14	S14	2"	1.5	59		Y	N	.2	3	53	
15	S15	2"	1.6	57		Y	N	.1	3	54	

QC1

Photo Back up # 0382

v1 3/2014



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SUSITNA-WATANA
HYDROELECTRIC PROJECT

Date & Time: 4-1-14 14:45

Crew: BT, MP

Sheet 33 of 3

Location: PRM 185.4

Weather: Clear

Camera: Camera #2, GO PRO #2

GPS Unit: POK

Comments:

(A)	(B)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
Sample #	GPS Point #	Snow Depth (ft)	Ice Thickness (ft)	Top of Ice to Bed Distance (ft)	Flow Depth (F - E) (ft)	Frazil Ice Present?	Anchor Ice Present?	Freeboard Height (ft)	Camera Height above Bed (ft)	Video #	Comments / Bed Description
16	S16	2"	1.7	57		Y	N	0	3	55	
17	S17	2"	1.9	61		Y	N	.2	3	56	
18	S16	2"	2.2	59		Y	N	.1	3	57	Frazil in Video
19	S19	2"	1.6	60		Y	N	.1	3	58	
20	S20	2"	1.6	59		Y	N	.1	3	59	

QC1: 0

Photo Back up # 0383

Date: ~~4-11-14~~ 4-1-14

PRM: 185.4

Sheet 3/3

QC

Photo 0384

