



TETRA TECH

UNDER ICE BED PHOTO SAMPLING

SUSITNA-WATANA
HYDROELECTRIC PROJECT

Date & Time: 3-26-2014 1540

Crew: BT, MP, RK

Sheet 1 of 2

Location: PRM 57.0

Weather: Partly Sunny

Camera: H-SW6-Caspio-2

GPS Unit: PDX

Comments: Camera-1 Photos # 520 left side downed looking right #521 center line holes looking US
#522 center line holes looking DS #523 right side downed looking left

(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
S1	1	4	3.0	93	4.6	Y	N	0.0	4.2	8	35 8-4ft
S2	2	4	3.0 2.9	102	5.6	Y	N	0.1	4.2	9	34 9-4ft
S3	3	4	2.8	105	20.0	Y	N	0.1	4.2	10	33 10-4ft
S4	4	4	2.8	107	6.1	Y	N	0.1	4.2	11	32 11-4ft
S5	5	6	2.8	107	6.1	Y	N	0.1	4.2	12	31 12-4ft
S6	6	4	3.7	110	6.5	Y	N	0.1	4.2	13	30 13-4ft
S7	7	4	2.8	111	6.5	Y	N	0.1	4.2	14	29 14-4ft
S8	8	4	2.6	112	6.7	Y	N	0.1	4.2	15	28 15-4ft
S9	9	4	2.6	108	6.4	Y	N	0.1	4.2	16	27 16-4ft
S10	10	4	2.5	105	6.3	Y	N	0.1	4.2	17	26 17-4ft
S11	11	5	2.6	98	5.6	Y	N	0.1	4.2	18	25 18-4ft
S12	12	5	2.6	86	4.6	Y	N	0.0	4.2	19	24 19-4ft
S13	13	6	2.9	72	3.1	Y	N	0.1	4.2	20	23 20-camera did not go below bottom of hole
S14	14	6	2.9	68	2.8	Y	N	0.3	4.2	21	22 21-camera did not go below bottom of hole

OC1

Photo Back up # Kasper Camera #395

Aerial Photos
Kilgus Camera Photos

- # 341
- 342
- 343
- 344
- 345
- 346
- 347

Rough surface snow

+ 5-6' apart

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cut Bank

~~415 416 417~~
Rt Bank

+ 5' above
1/2' below

mc

↑
flow

Lt Bank

Exposed LWD

undulating
snow piling

CCRT

Aerial Backup Kilgus Camera # 346