

~~State~~

Natalie



530 722  
5789

*Rite in the Rain*

ALL-WEATHER  
**UNIVERSAL**

Nº 146

n. Kramer.  
anderson  
@gmail.com

Sept 5 - boat cruise Aklauc  
w/

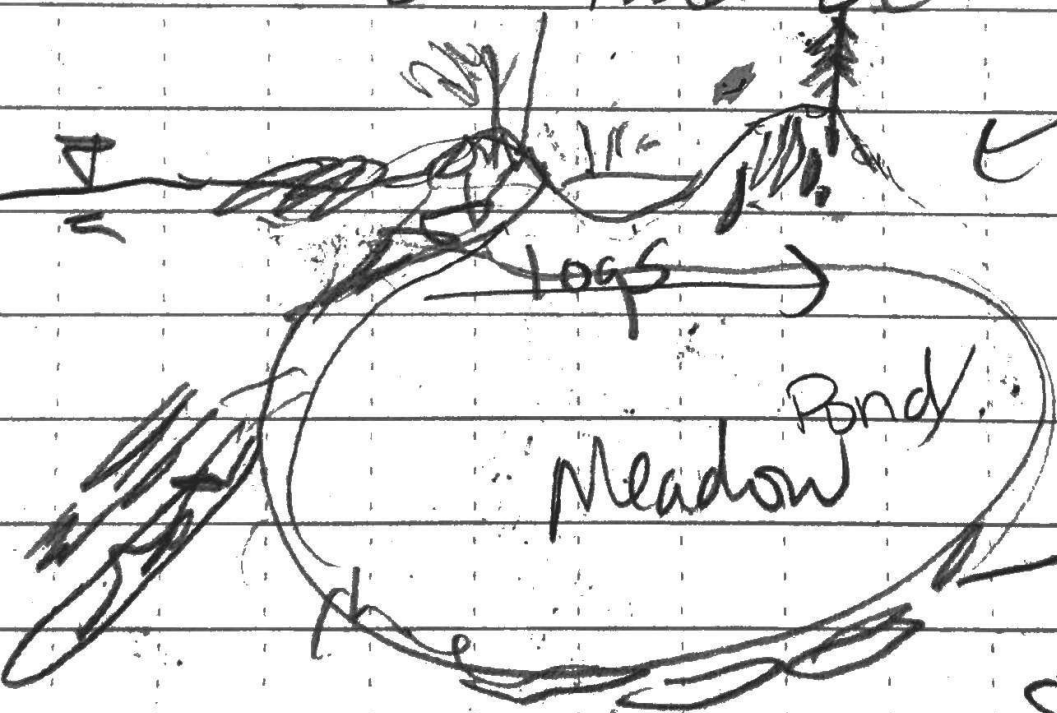
I set up the GPS tracks &  
the TL camera every  
2 sec.

68.215812

134.992216

New Driftwood  
along margin

in mud flat



based on guide  
description

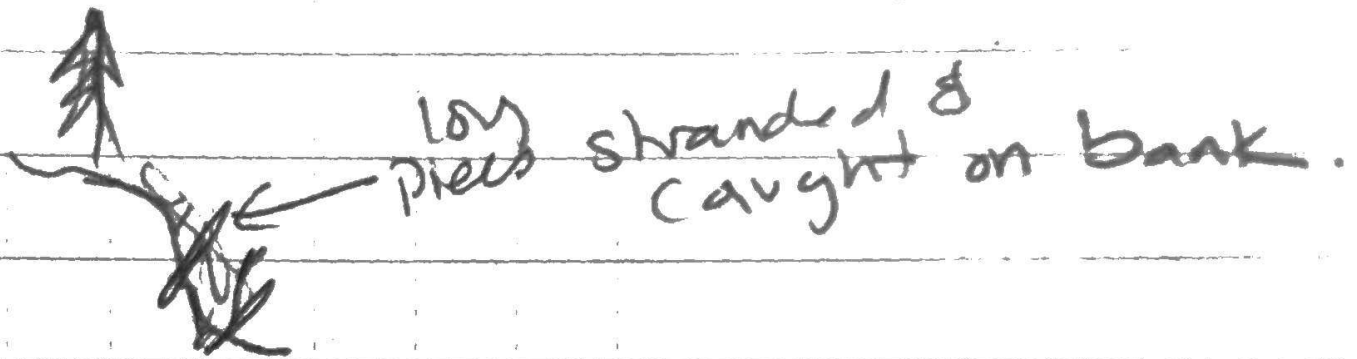
it

driftwood

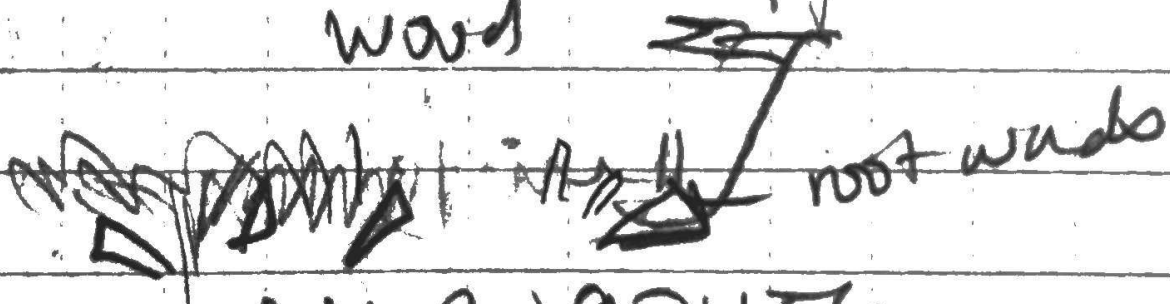
ice push berms

spring lake  
fills wood  
in spring.

as we are driving up  
channel, evidence for  
wood scraping along bank



in places large extensive  
marsh, likely underlain by  
wood



NU8.192456

134.986024

AK1

large intact new wood

D = 68.192298 134.985704

15, 12, 21, 20, 20, 27, 15, 11, 17

12, 10, 11, 14, 17, 14, 15, 11, 10, 15, 13, 18

Thickness = 70cm

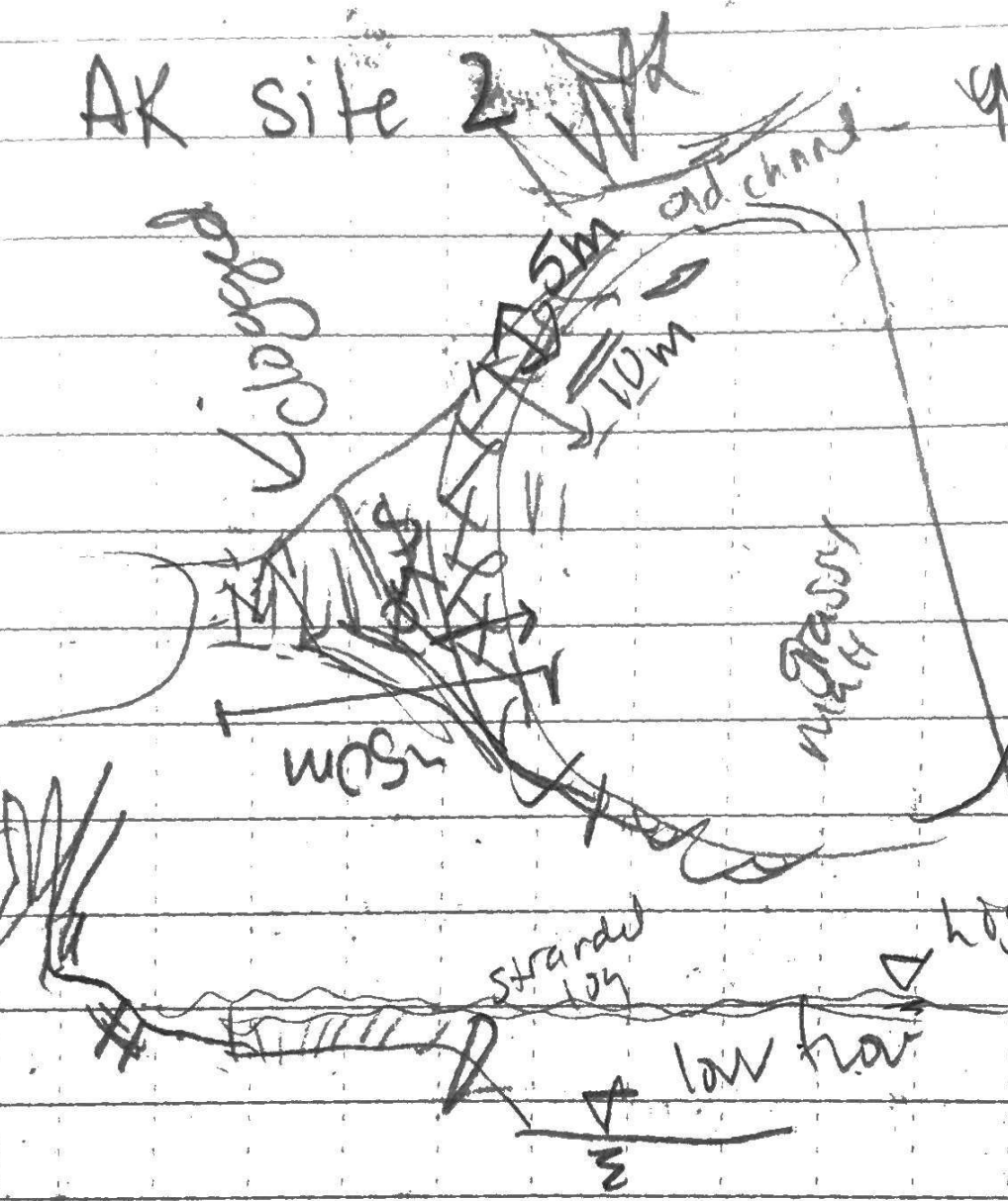
(0, 91)

depth = 6cm 59 just shore not bank  
wood (under)

$\phi = 90^\circ$

length ~ 118m

AK Site 2



used to be able to go through  
 40 yrs ago in small boat  
 now it is sited in a beavers closing channel  
 ices pushes stump into creek

GPS pt 68.171513  
 135.017026

T1 start →

- 23, 24, 17, 10, 11, 11, 10, 12, 12, 14
- 28, 11, 15, 17, 18, 10, 20, 21
- 30, 12, 10, 23, 10, 26, 25, 14
- 22, 12, 10, 31, 23, 13, 18, 22
- 12, 12, 11, 10, 14, 15, 10, 14, 13, 10
- 17, 15, 14, 19, 12, 12, 17, 12, 10, 19, 14
- 10, 12, 27

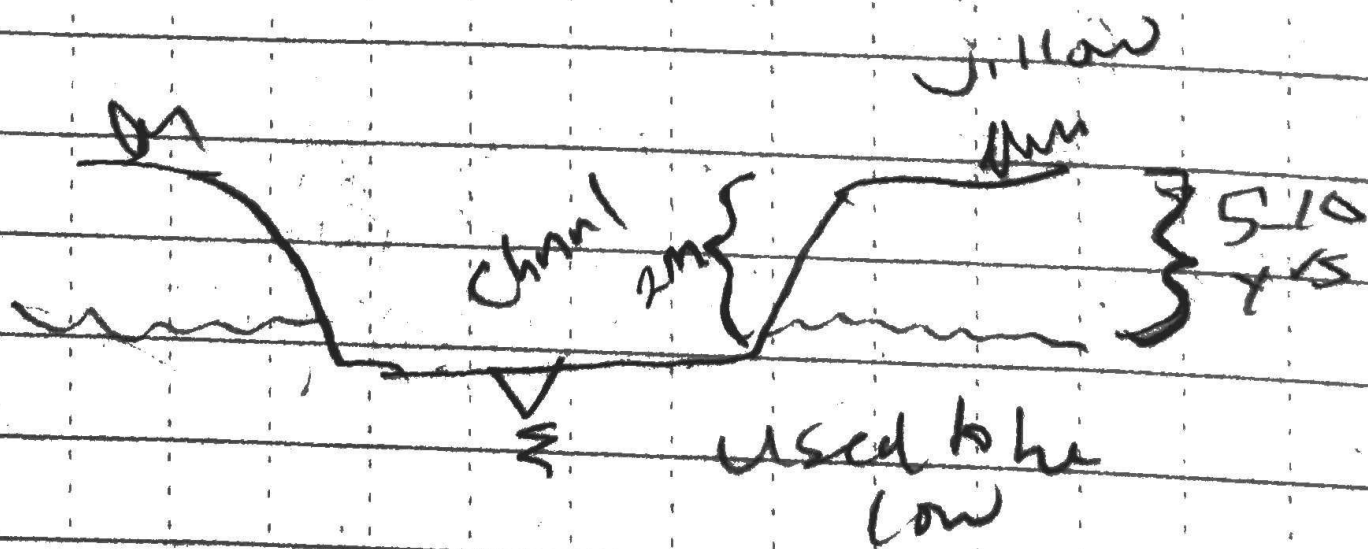
Rite in the Rain.

Re-worked fluvial deposit @  
back of bay jammed  
against willows. you  
used to be able to  
travel through  
end of transect

08.17.58 \$135,016.388

almost all bays like  
this one look like  
this.

builds up higher & higher  
driftwood gets covered  
banks get higher & higher  
Wow! lots of  
burned wood.



in some ice years it  
gets scraped down  
but lately more  
aggradation than  
degradation.

68.151236

135.048075 } near  
outlet

other side

of plugged  
creek

68.151710 }

135.052539 }

used to be able to  
go through here in the  
fall - w/ big boat

always mouse & bear

68.151630

135.05524 - raft plug in channel  
buried in sed rock

↑ 2 yrs ago - could  
go in the  
spring

along the L Bank here  
Full of driftwood

Site 3

top of bank deposit.  
N68.152198

135.001730

burned personal  
belongings.

piles w/in willows all  
along bank here bec.  
driftwood. All this is  
covered in water in

Spring

68.151878

135.001965

wood like this goes  
all the way to about 21, 19,  
site 19.

24

12

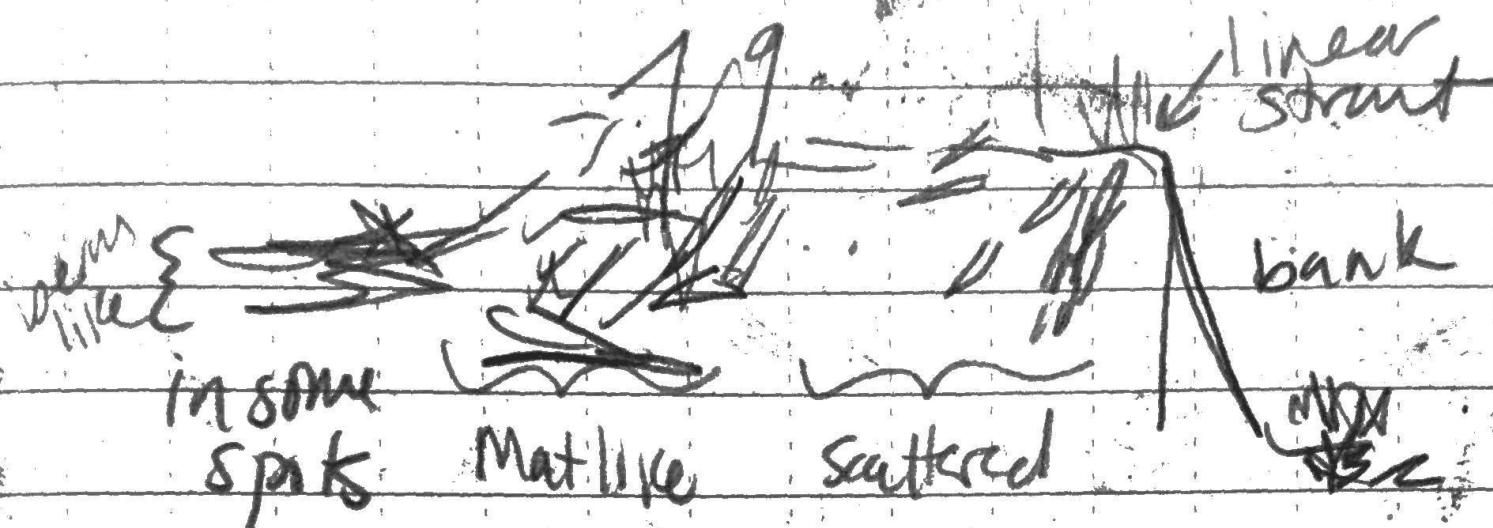
15, 22, 12

T1 14, 11, 12

12, 11, 10, 13

13, 10, 12, 23

20-40 cm thick  
w/6 m wide  
to 5th Run = 957.



end a little way up  
 of 68.147M3  
 135.000159

Creek that is now  
 plugged that used  
 to be open.

lake is breaking through  
 68.138395 here  
 135.053842

Pr. #1



68. 14 0197

135. 072253

another spot that is  
opening up to another  
lake

gets really shallow  
here it is closing up  
on other channel,

the wood here is thicker w/  
More Rootwads.

evidence for both in fill  
of streams & breaking  
through of new streams.

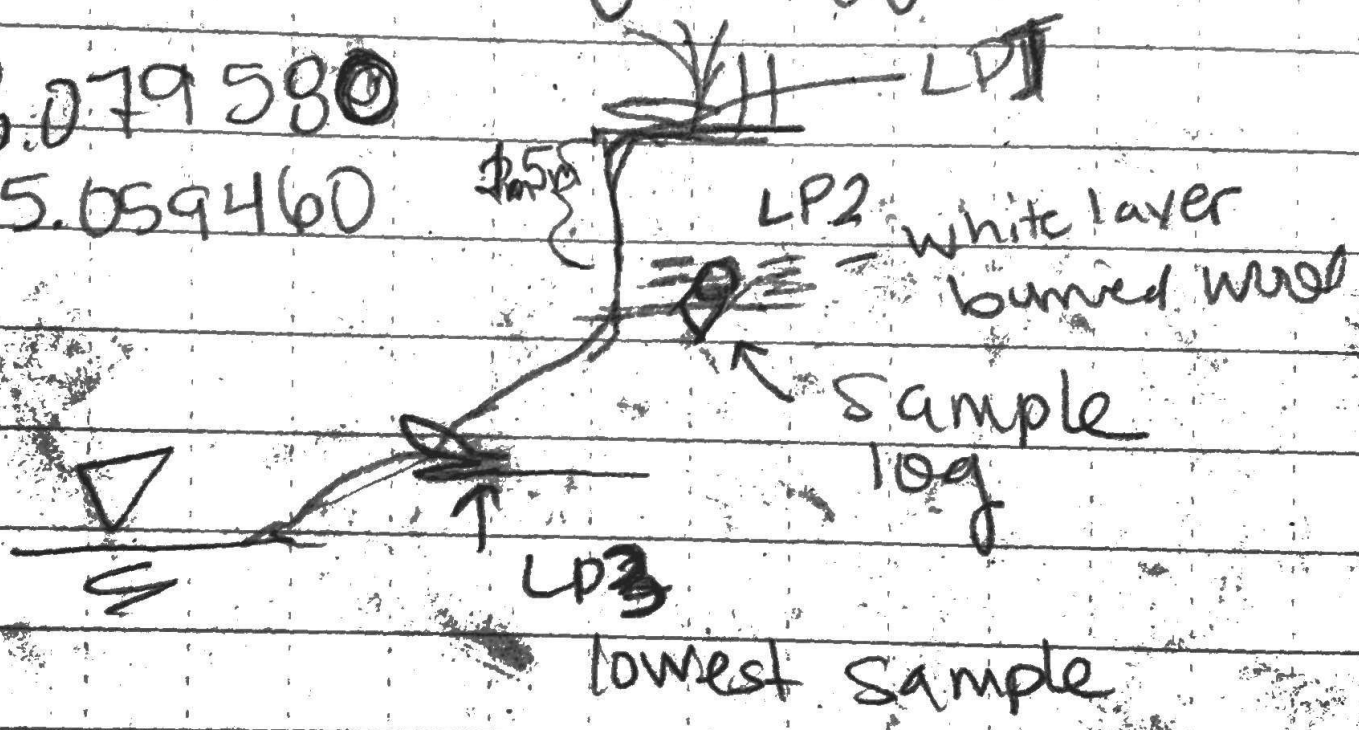
breaking through Point.

68. 120203

135. 088918

a) eroding bank  
old log jam @ base of  
top part of cliff.

60.079580  
135.059460



a) Conf. w/ Main Peel  
Channel eroding  
south bank &  
dep. bar

Site 5 Aklavik

LP 1

Core 1 - baby  
little spruce grows  
out of core 1

68.095805

135.137878 (LP 1  
Core 1)

Core 2 1<sup>st</sup> juvenile spruce

LP 2 - grows Core 2

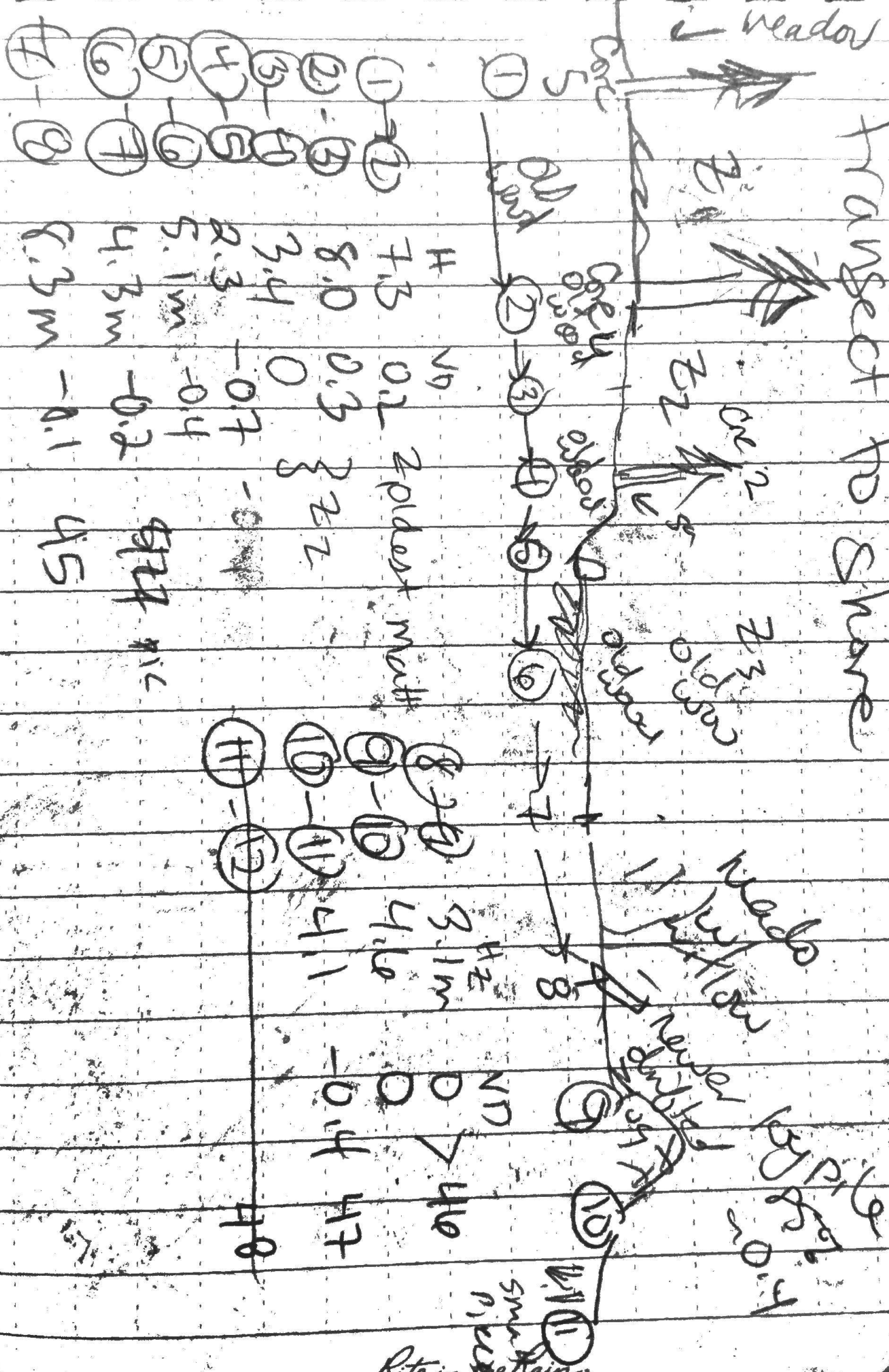
~~Core 3~~

younger spruce in  
same deposit as  
~~Core 1~~ but older,  
31cm tall

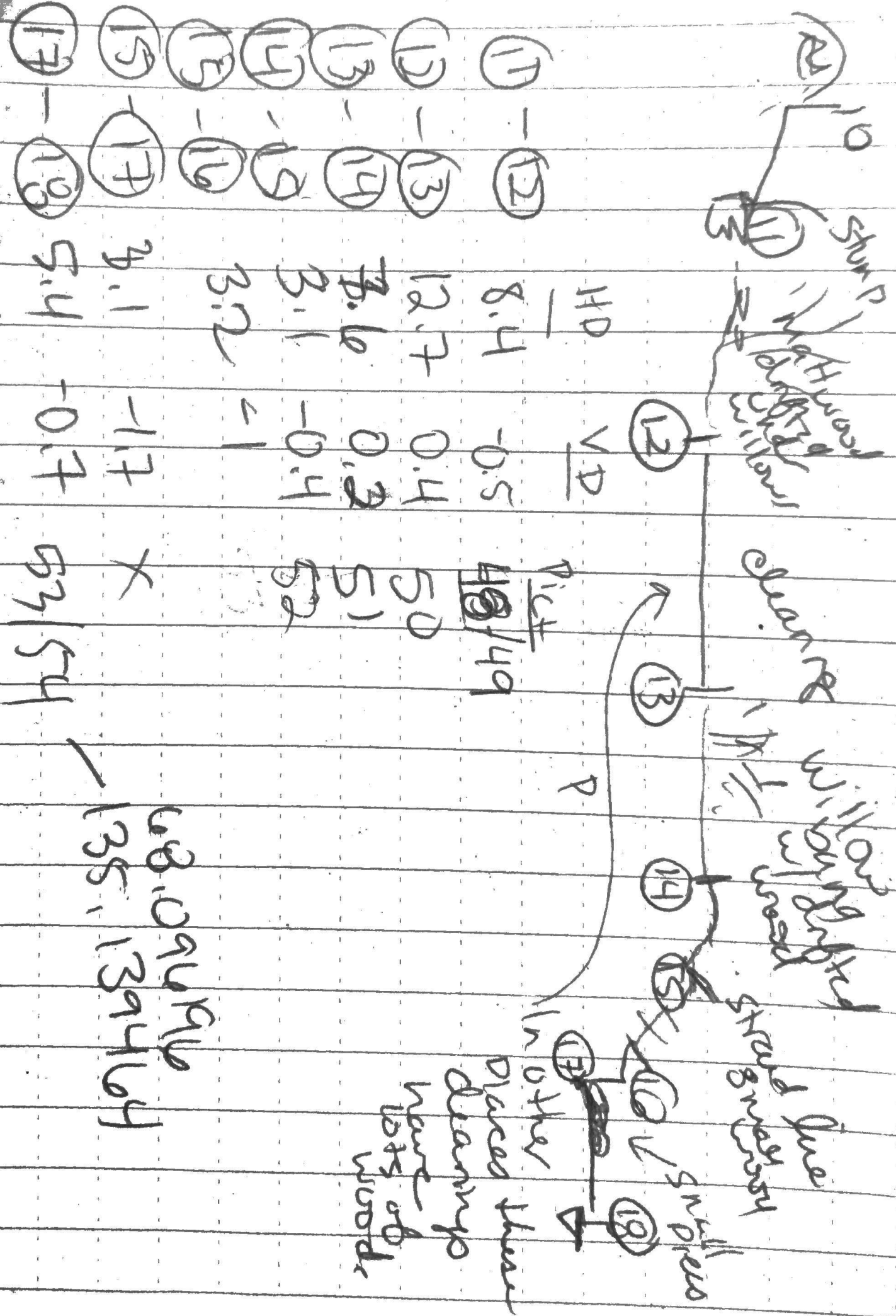
Core 4 - a Oldest live trees  
b

Core 5 trees get younger  
again

Transect to Shore



Rite in the Rain.



In other places there are lots of wood

135, 139, 44  
138, 09, 94

page  
page  
page  
page  
page  
page  
page  
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page  
page

lots of driftwood RR bank

60. 10437

135. 2537199

(can't see from)

just looks like willows boat

inside of a really big head

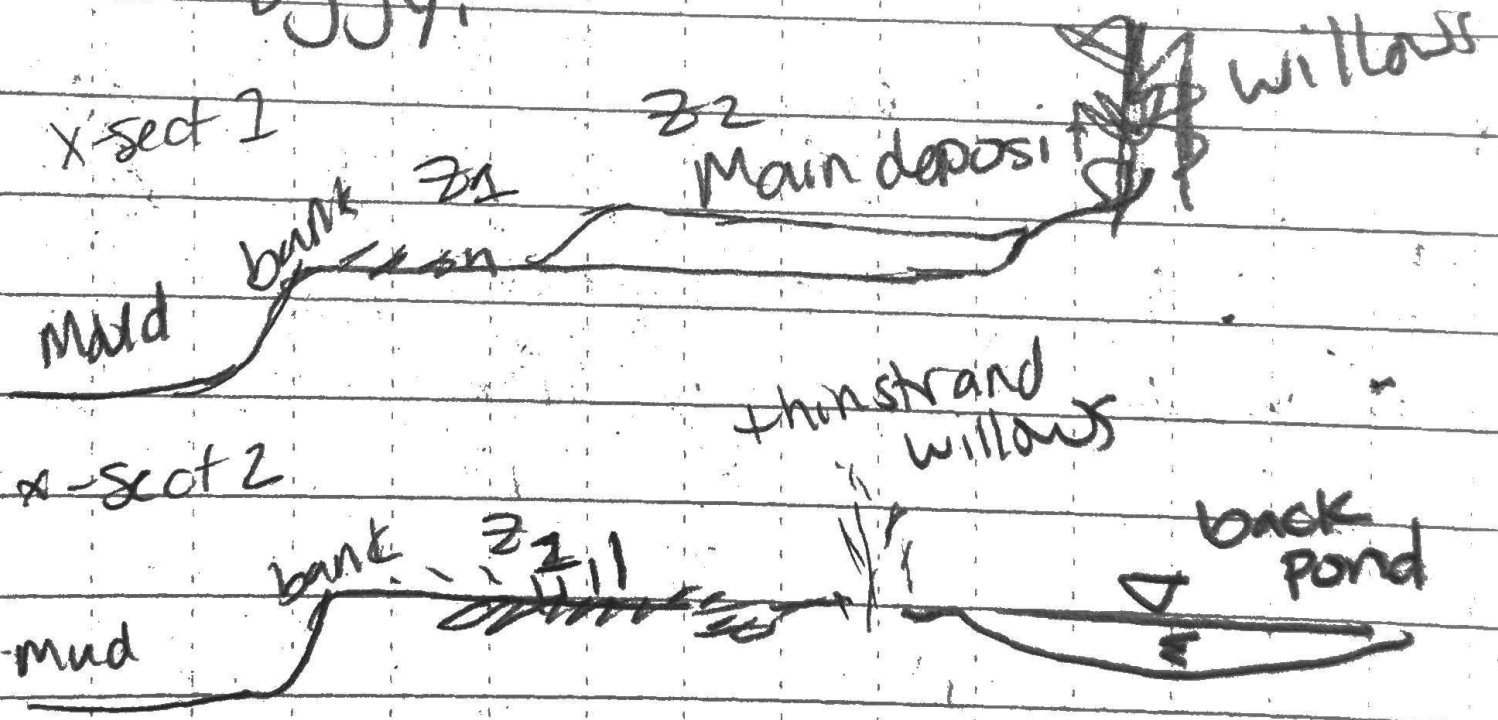
- e-transfer-

e-mail - gillasiak

Sept. 6, 2019

AKLAWIC Site 6

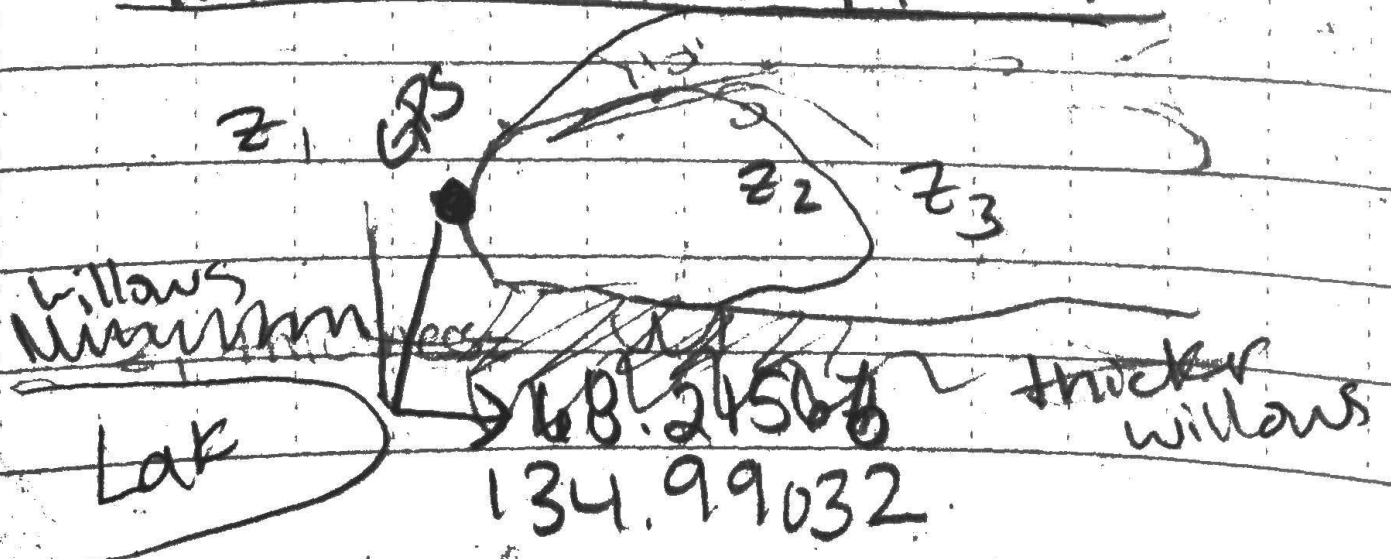
large Matt deposit across from town on peel channel. Day is really foggy.



Aerial

Shore

bank



Z<sub>1</sub> Notes - reeds & grass  
growing thru smaller  
logs  $\phi \sim 0.2$  cm thick

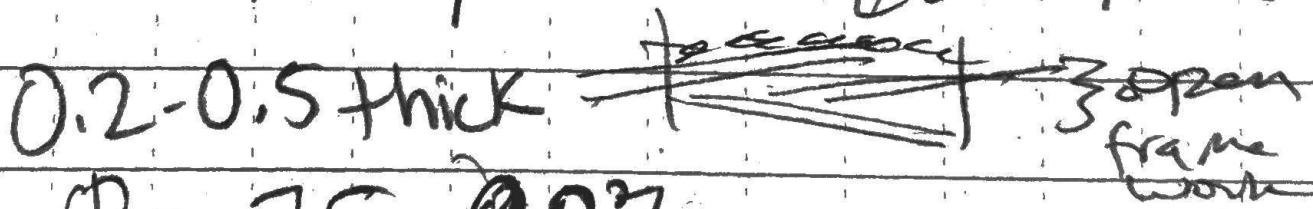
v. poorly sorted & mod  
organized. deposit is thicker  
↓  
towards willows

$$\phi = \sim 60\%$$

Z<sub>2</sub> - Mostly Med sized pieces & <sup>poorly sorted</sup>  
with top layering of <sup>poorly organ- ized</sup>  
floated wood pulp

$\phi$  structure very open under  
pulp layer

0.2-0.5 thick



$$\phi = 75-80\%$$

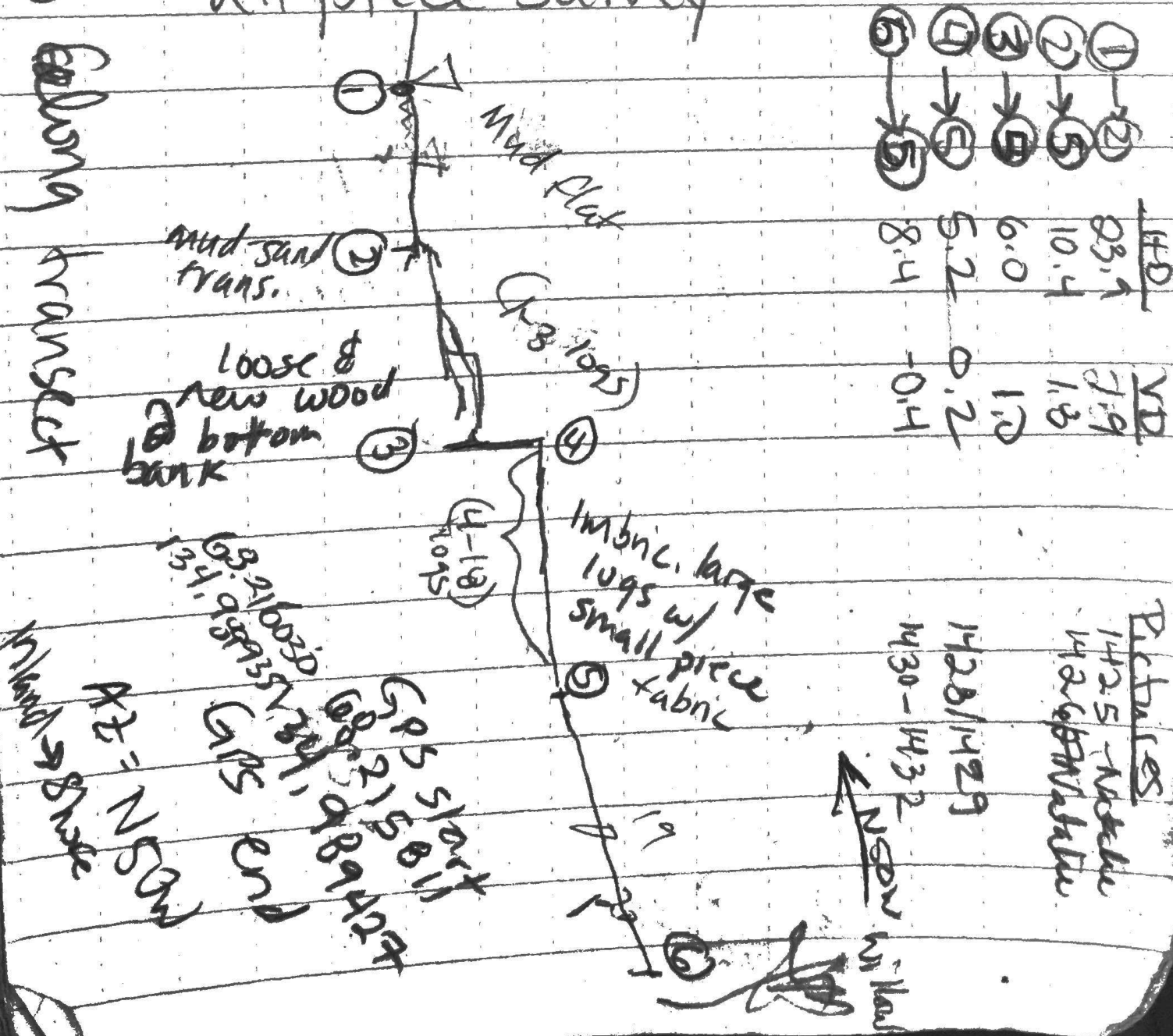
Z<sub>3</sub> - Higher predominance larger  
logs imbricated // to shore  
grass grows through as in  
Z<sub>1</sub> but more larger pieces  
present. ~~Redeposited~~ goes →



all the way to the bank  
 here thickness = 0.2 - 0.4 m

gps btwn Z2 & Z3 =  $\phi$  60-95  
 68,215803  
 134,989625

video Edlong transect  
 transect across Z3 w/  
 all piece survey



# ALL LW survey along Transect

D<sub>s</sub> - P<sub>L</sub> - L S DBA AZ

- 1) 15.5-s 16-s 1.8 C 2-4-3 S25W 0°
- 2) 15 fork 16-s 4.4 D 1-4-3 N26E 2°N
- 3) 14-s 17-r 6.3 D 1-4-4 N81E 5°S
- 4) 11.5 19.5-s 6.0 D 1-4-3 N49E 2°N
- 5) 9.5-s 14-r 3.8 D 1-4-4 S45W 0°
- 6) 14.5-s 18-r 2.8 C 1-4-3 S48W 6°
- 7) 16.5-s 16.5-s 1.36 ? 2-4-4 S80W 0°
- 8) 6-t 14-r 5.1 C 1-4-3 S50W 4°S
- 9) 7-t 14-r 8.2 D 1-4-4 S60W 4°S
- 10) 14.5-s 13.5- 1.87 C 1-4-4 S67W 9°N
- 11) 5-t 13-r 4.8 C 1-4-4 S78W 5°W
- 12) 6.5-s 14-r 3.2 C 1-3-2 S58W 0°
- 13) 14 <sup>(945)</sup> fork 22-s 8 D 1-4-3 S65W 0°
- 14) 21-s 43-r 10.2 D 1-4-4 S58W 4°S
- 15) 9-s 16.5-s 2.4 D 1-4-4 N55E 0°
- 16) 47-s 19-s 4.7 C 1-4-4 N60E 0°
- 17) 10-s 8-s 2 C 1-4-3 N53E 0°
- 18) 11-s 35-r 11.1 D 1-4-4 N51E 11N
- 19) 14-s 25-s 6.5 C 2-4-3 <sub>burned</sub> S64W 9°S
- 20) 14-s 26-r *Refer to the Plan* D 1-4-4 S65W 8°S

AKLAWIC - just up  
AKLAWIC River

Channeled, stranded  
wood on inside of  
bend, ice push jam  
wood does seem more  
travel abraded & bigger,  
berm ~ 6m wide &

~ 50m from water's edge

~ 4.4 VD to water's edge

Diam T1

<u>D</u>	<u>L</u>	<u>Az</u>
15	17.8	S70E
32	4.6	S60E
21	6.2	S30E
23	4.7	S68W
21	3.4	E
12	2.2	N85E
19	2.4	N85E
20 (4)	15 (R)	E
19	11.3	N85W
26	3.7	S80W

Transsect #2 (LP) 68.2 m  
134.960948

<u>D</u>	<u>L</u>	<u>Az</u>	
46	9.5	S40W 0°	D LP 1
15	4.8	S60W 20N	C
10	1.34	S60W 0	
31	7.6	S80W 0	
27	2.8	W 0	<del>X</del>
12	2.6	S85W 0	
19	3.3	N35E 0	
17	3.0	S49W 4°S	
16	1.7	S57W 4°S	
10	6.6	N40E 0°	
10	2.6	S60W 0°	
22	5.0	N65E 6 moxy	
13	4.4 R	S54W 5°S	

Bay  
③ Oldest Pile - 68.266414  
134.960096

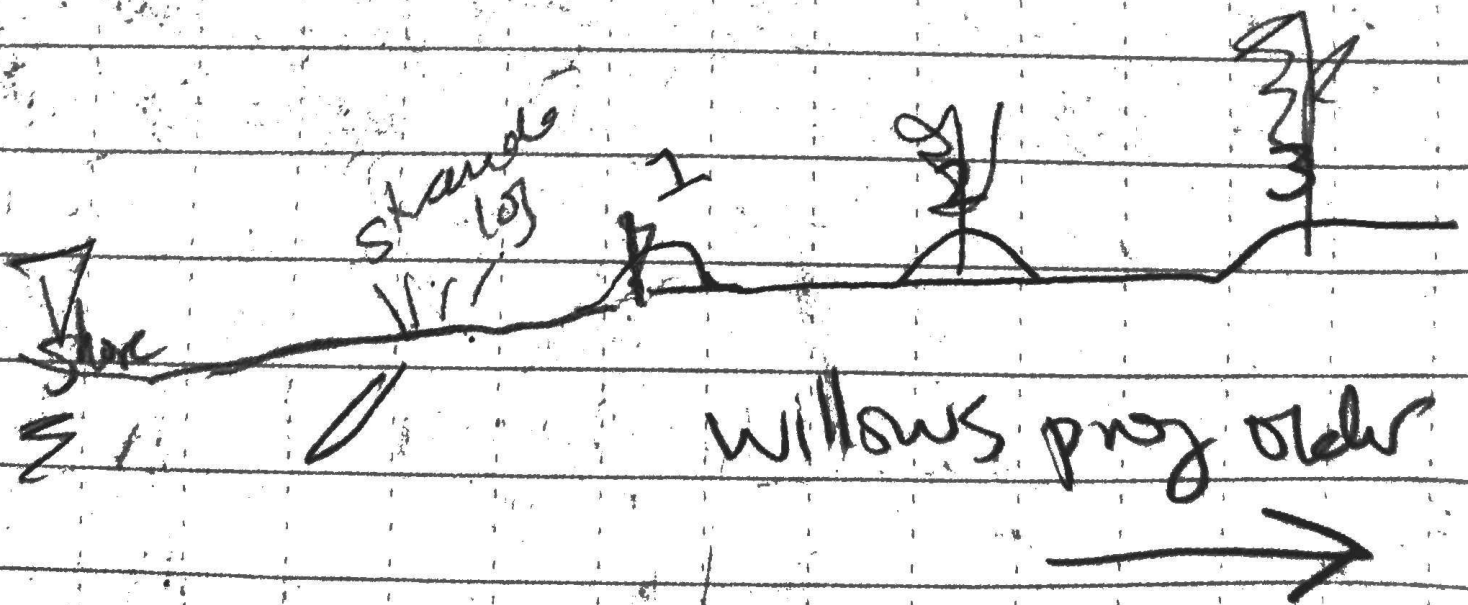
trending N80E

End 68.266176  
134.960613

② Next Oldest

68.266014  
134.960349

~6m wide  
-12m



① Youngest 68.267057  
134.960399

line of younger spruce  
core 12

site  
8

68.251209 27"  
135.019593 from  
ground

Core 2 further in & older.  
27"

likely oldest tree  
We have cored

68.251361 40cm  
135.020199 up

Really Messy

center - lost a lot  
of rings. at least it  
is a minimum  
age for old spruce

On West Channel

More wood here on banks  
site 9

coning spruce  
back of willow

sequence

68.448472

135.477352

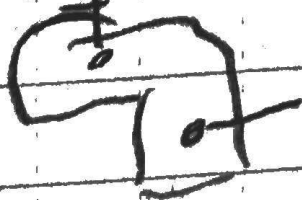
ice push event dating

68.448421 also called

135.476452 be from

C<sub>1</sub> below snowdrift

C<sub>2</sub> above



heights along  
tree

68.448446

135.476378

small  
> on top of wood  
pile

big old drift pile  
w/ swamp behind

U 08.448433  
W 135.476199

↓ start

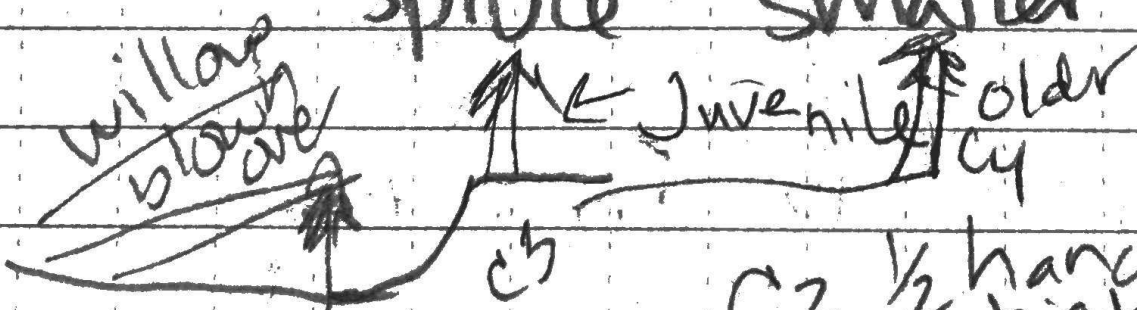
Willows leaned over in  
us direction?

Young spruce @ back  
N 08.448372

W 135.475214

D = 2.6 cm core @ dbh  
whole center is missing rotten tree

C1 - young sapling spruce  
C2 - 2<sup>nd</sup> young sapling  
spruce - smaller



sapling  
C1 & C2

C3 1/2 handle  
high

C4 08.448336

135.474865

Rite in the Rain.



C4 might be on old pile  
not really sure;  
within center

C5 Another tree no  
within center - near  
windblown clearing  
back of willow  
sequence

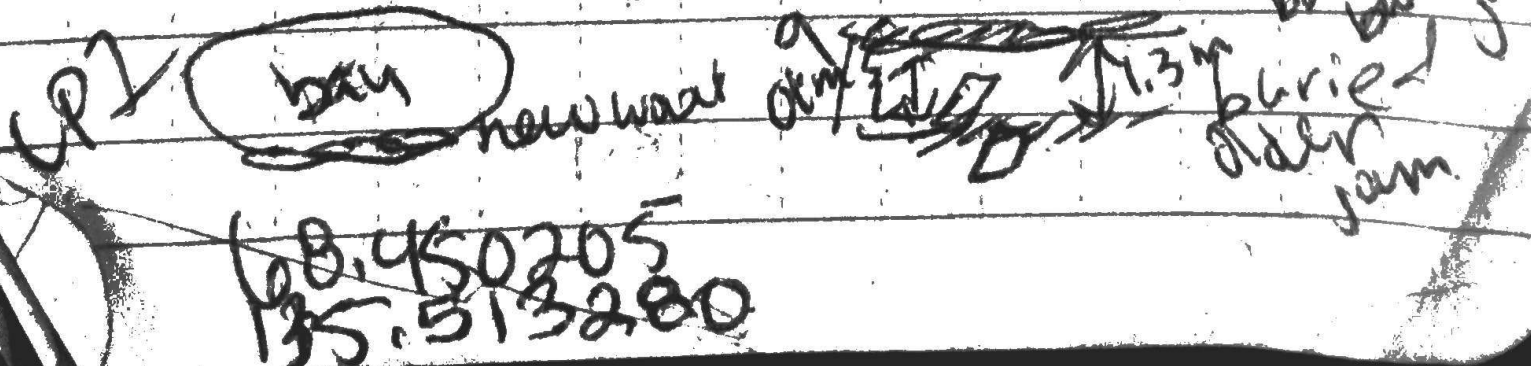
dbh - core taken  
in 2 sect

LB 448554 a & b

BS 475033

LP2 one  
meter  
from top

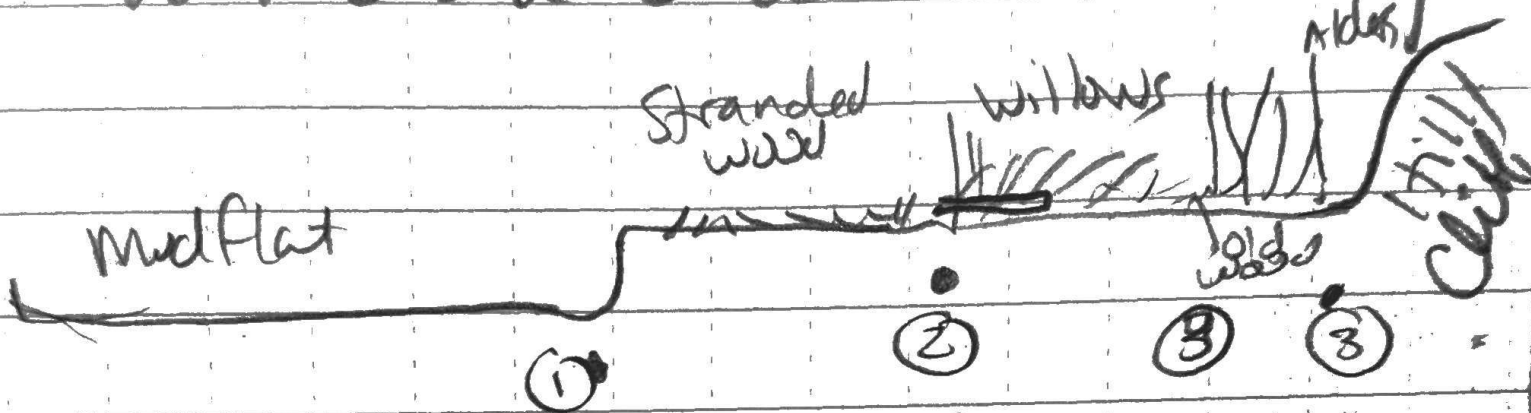
Site 10  
buried log in bank



Site 11 flats opposite

Jeremy's camp.

will do a diameter survey



Wood is grey & bleached like mainstem w.

Transect shore to cliff.

① - 68.469205 135.598455

② 68.469076 135.598468

③ 68.468782 135.598314

④ 68.468648 135.598125-LP1

Diameter survey large logs.

D=24  
L=4.4

24, 13, 19, 14, 15, 11, 11, 10, 40

16, 18, 14, 12, 27, 10, 17, 15, 19,

10, 15, 15, 11, 24

lots wood w/in willows is  $\perp$  to

shore. ~~spearing into~~ willows  
*fall in the rain.*

# Flight Over Delta

At start Alicia is on left of plane, I am on right side, tracks are recording

Waypoints are within & labelled 'Shikine'

wpt 10 - lots of wood on bank.

but right in  
wpt 20 lots on R bank.

coming out into shallow bay  
wood filling in old channels

Cool

Wrote 23 raft plays.

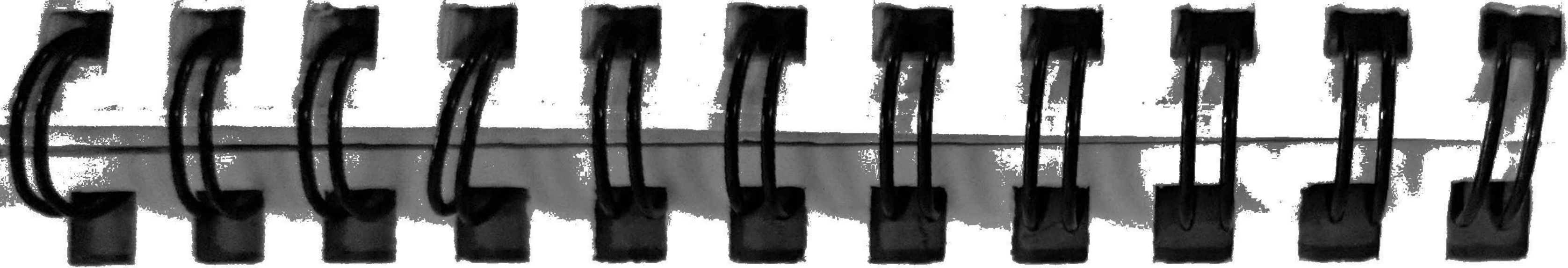
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Shit - the track  
wasn't recorded.

24 - channel plays

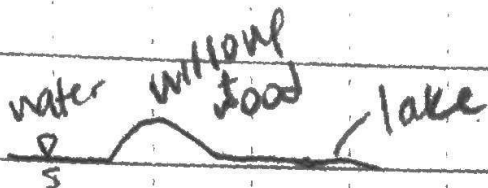
~~150~~ Alicia. SENDROWSKI @ colorstate.edu

Alicia SENDROWSKI +1 813 525 7954



09/05/19

AK Hank 68.21572, 134.99187



wood gets into lake then  
water drains and wood stays on  
top

AK site 1 69.19228, 134.98567

Accumulation around bank between  
channel and lake

photo 1

Pulverized wood under a lot pieces  
- bunches of stumps with pieces behind it

At site 2 68.17162, 135.01727.

jam in grassy area

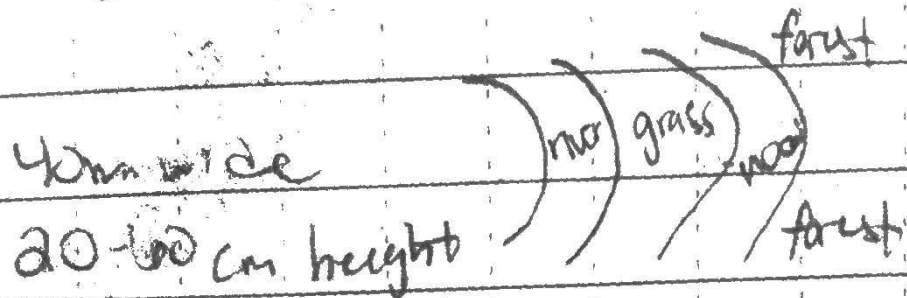


photo 7

jam porosity  
0.95

scattered trees all around, not very high

dmie says there was a channel next to here  
that is now inaccessible.

some trees still have bark

orientation changes across deposit

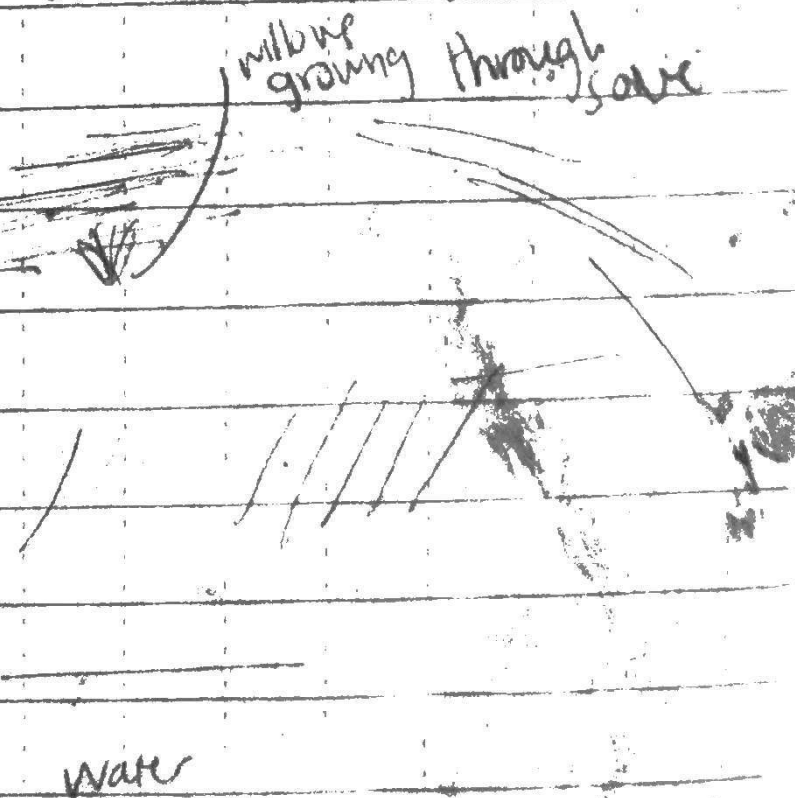
LP1 <sup>d</sup> 22cm, <sup>l</sup> 7.1m

taken from

back of deposit

LP2 <sup>c</sup> 3.8m, <sup>d</sup> 52cm

front of deposit



Small channel that has been silted in, plugged by wood

68.15169, 135.06348

AK site 3 68.15188, 135.06195

driftwood pile in willows delivered by  
river photo 16

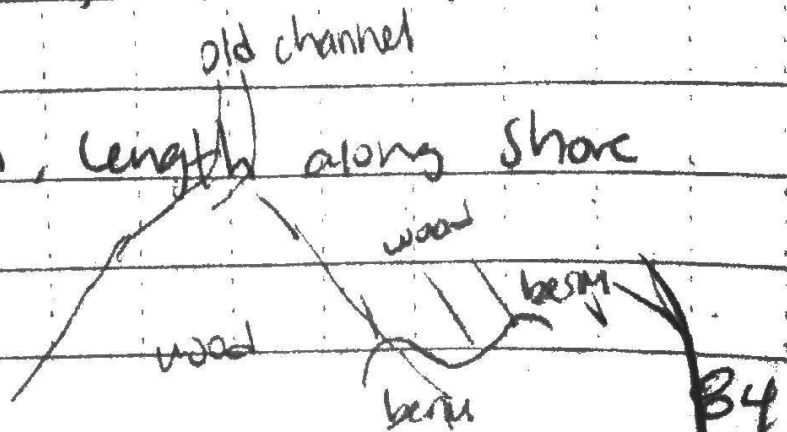
LP1 <sup>dia</sup> 21cm, 8m length

LP2 <sup>dia</sup> 34cm length photo 25/26

Site 68.14703, 135.05997

photo 27

27m width, length along shore





SHC AK 4 ~~cut bank~~ W8, 07977, 135, 05893

LP1 24cm x 9m  
has root wad

LP2 cut bank, 1.3m from top  
26cm dia

LP3 cut bank bottom of bank  
2m from top

W8, 01276, 135, 01430 mud bar

river is widening, wood deposit on bar

AK site 5 68.09571, 135.13791

Core 1

photo 34

↳ small spruce

LP 1 old log in ground

29cm x

Core 2 - large spruce growing out of LP 2

9cm from ground

LP 2 buried

Core 3, growing next to core 1

Core 4 68.09572, 135.13780

taken 30cm from ground

split into 2, 4a and 4b

Core 5 68.09566, 135.13763

taken 24cm from ground

← start of survey

LP 3 taken close to front of deposit

68.09595, 135.13838

21cm, 4.5m

86

09/06/19

Ak site 6

68.21589, 134.98936

photo 57-66

Extensive deposit across from Aklavik

pieces mainly oriented parallel to shore  
poor sorting, big mixed w/ small pieces

[LP1 19.5cm dia 11.2cm length]

Deposit may be "old" but pieces in deposit may  
be newer - new material delivered every year  
when water rises - old stuff gets lifted  
away

[LP2 ~~21~~ 31cm, 10.2cm]

Site 7

68.26714, 134.96205

photo 67

channel that flows from Mackenzie toward  
Peel

Abutule taking diameters

[length of axe]

37cm

[blade 14.15cm]

AK site 7 cont

deposit in front, extensive deposit in back near willows

accumulation in back 68.26664

[ LP1 15m length, 46cm ]  
134.96112

end of deposit 68.26663, 134.96028

(79)  
[ LP2 → 31cm dia width (photo 81), 7.1m length ]

deposit farther inland 68.26646, 134.96027

LP3 → 15m length x 39cm

core 1 68.26710, 134.96202 - growing thro

2 - raked up against

3 68.26690, 134.96181 - in first deposit pile raked up against it inland

Core 4 68.26641, 134.96181  
24cm from ground

Core 5 68.26645, 134.96181  
28cm from ground

Core 6 30cm from ground

Core 7 same <sup>tree</sup> as core 4 but taken  
40cm from ground

---

AK site 8 gps in Nat's book  
took 2 spruce cores to get  
minimum age of largest trees

no visible drift wood at site  
"looked like "tundra" sites

AK site 9 68.44845, 135.47633

LP1 23cm x 7m

photo 87

core 1 taken 31cm from ground  
below scar caused by ice

Core 2 taken 49cm up tree

above scar - could be caused by  
snow drift

West Channel:

According to Jordan, this site and others along  
west channel get a lot of weed - seen  
along banks - more accumulations  
compared to other channels we've been in

Natalie taking cores inland except many  
are rotten


gps of photos 93-95: 68.44890, 135.47635

photo of trees angled - likely due to snow  
piles up due to strong NW winds

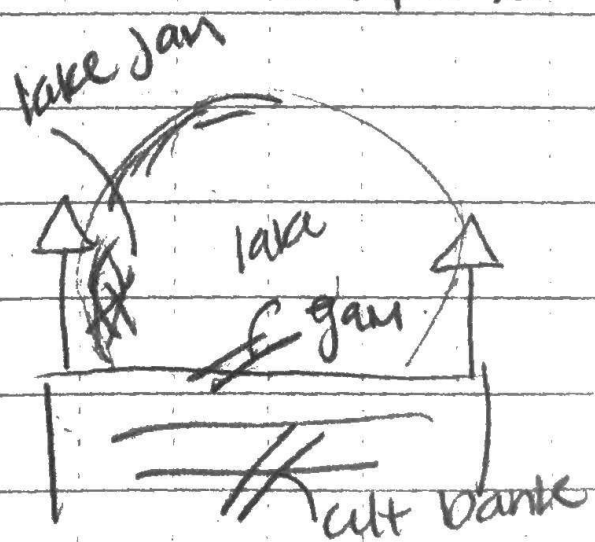
90

site 10 68.45023, 135.51331

LP1 cut bank dia 27cm photo  
80 cm from top 97

above cutbank was deposit on top  
large pieces oriented ?  ?

lake behind site 10  
contains deposit that  
looks similar to Inuvik  
lake sites



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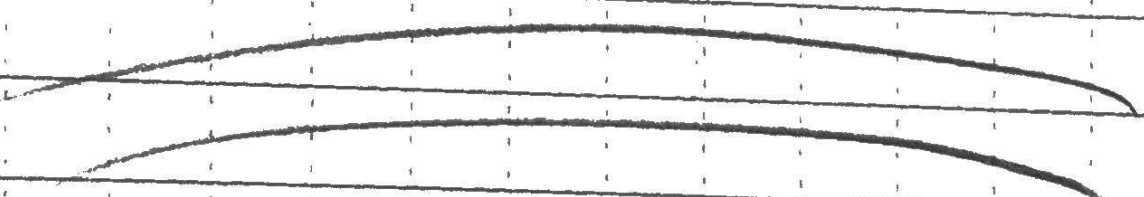
Jordens camp 68.47220, 135.59624

site 11 68.46916, 135.59856

across from Jordan's camp photo 109

gps top of hill 68.46851, 135.59822

LP 1 24cm 4.4



68.359651, 135.388923

big bay downstream of this point  
with large wood inside



09/07/19

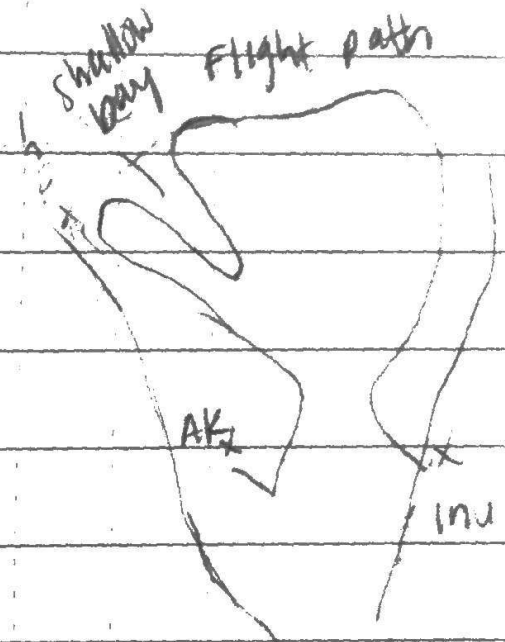
Flying over delta

photo  
128-724

- Seeing a lot of veg. banding  
with wood

- old channels filled w/ wood

Not a lot of wood at coast



saw big hankam jam near some caribou!

Many east, higher relief terrain, not a lot of  
wood/no wood

6114
724
128
<hr/>
596