

ACE BASIN, S.C.

CUMBERLAND, ISLE, GA.

SET WORK

1997 →



Ben Meadows

1-800-241-6401

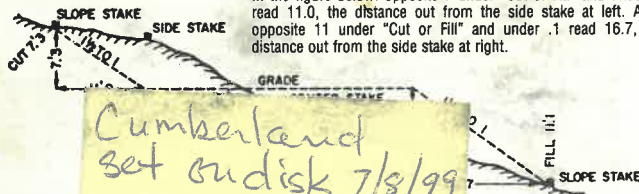
LEVEL BOOK

#101596

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING

Roadway of any Width. Side Slopes 1½ to 1.

In the figure below: opposite 7 under "Cut or Fill" and under .3 read 11.0, the distance out from the side stake at left. Also, opposite 11 under "Cut or Fill" and under .1 read 16.7, the distance out from the side stake at right.



Cut Fill	0										.7 .8 .9			Cut Fill
											ke			
0	0.0										1.1	1.2	1.4	0
1	1.5										2.6	2.7	2.9	1
2	3.0										4.1	4.2	4.4	2
3	4.5	4.7	4.8	5.0	5.1	5.3	5.4				5.6	5.7	5.9	3
4	6.0	6.2	6.3	6.5	6.6	6.8	6.9				7.1	7.2	7.4	4
5	7.5	7.7	7.8	8.0	8.1	8.3	8.4				8.6	8.7	8.9	5
6	9.0	9.2	9.3	9.5	9.6	9.8	9.9	10.1	10.2	10.4				6
7	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.6	11.7	11.9				7
8	12.0	12.2	12.3	12.5	12.6	12.8	12.9	13.1	13.2	13.4				8
9	13.5	13.7	13.8	14.0	14.1	14.3	14.4	14.6	14.7	14.9				9
10	15.0	15.2	15.3	15.5	15.6	15.8	15.9	16.1	16.2	16.4				10
11	16.5	16.7	16.8	17.0	17.1	17.3	17.4	17.6	17.7	17.9				11
12	18.0	18.2	18.3	18.5	18.6	18.8	18.9	19.1	19.2	19.4				12
13	19.5	19.7	19.8	20.0	20.1	20.3	20.4	20.6	20.7	20.9				13
14	21.0	21.2	21.3	21.5	21.6	21.8	21.9	22.1	22.2	22.4				14
15	22.5	22.7	22.8	23.0	23.1	23.3	23.4	23.6	23.7	23.9				15
16	24.0	24.2	24.3	24.5	24.6	24.8	24.9	25.1	25.2	25.4				16
17	25.5	25.7	25.8	26.0	26.1	26.3	26.4	26.6	26.7	26.9				17
18	27.0	27.2	27.3	27.5	27.6	27.8	27.9	28.1	28.2	28.4				18
19	28.5	28.7	28.8	29.0	29.1	29.3	29.4	29.6	29.7	29.9				19
20	30.0	30.2	30.3	30.5	30.6	30.8	30.9	31.1	31.2	31.4				20
21	31.5	31.7	31.8	32.0	32.1	32.3	32.4	32.6	32.7	32.9				21
22	33.0	33.2	33.3	33.5	33.6	33.8	33.9	34.1	34.2	34.4				22
23	34.5	34.7	34.8	35.0	35.1	35.3	35.4	35.6	35.7	35.9				23
24	36.0	36.2	36.3	36.5	36.6	36.8	36.9	37.1	37.2	37.4				24
25	37.5	37.7	37.8	38.0	38.1	38.3	38.4	38.6	38.7	38.9				25
26	39.0	39.2	39.3	39.5	39.6	39.8	39.9	40.1	40.2	40.4				26
27	40.5	40.7	40.8	41.0	41.1	41.3	41.4	41.6	41.7	41.9				27
28	42.0	42.2	42.3	42.5	42.6	42.8	42.9	43.1	43.2	43.4				28
29	43.5	43.7	43.8	44.0	44.1	44.3	44.4	44.6	44.7	44.9				29
30	45.0	45.2	45.3	45.5	45.6	45.8	45.9	46.1	46.2	46.4				30
31	46.5	46.7	46.8	47.0	47.1	47.3	47.4	47.6	47.7	47.9				31
32	48.0	48.2	48.3	48.5	48.6	48.8	48.9	49.1	49.2	49.4				32
33	49.5	49.7	49.8	50.0	50.1	50.3	50.4	50.6	50.7	50.9				33
34	51.0	51.2	51.3	51.5	51.6	51.8	51.9	52.1	52.2	52.4				34
35	52.5	52.7	52.8	53.0	53.1	53.3	53.4	53.6	53.7	53.9				35
36	54.0	54.2	54.3	54.5	54.6	54.8	54.9	55.1	55.2	55.4				36
37	55.5	55.7	55.8	56.0	56.1	56.3	56.4	56.6	56.7	56.9				37
38	57.0	57.2	57.3	57.5	57.6	57.8	57.9	58.1	58.2	58.4				38
39	58.5	58.7	58.8	59.0	59.1	59.3	59.4	59.6	59.7	59.9				39
40	60.0	60.2	60.3	60.5	60.6	60.8	60.9	61.1	61.2	61.4				40

ACE BASIN

* SET LOCATIONS GPS readings

SITE 1 32° 29' 50" N (29.965) South side
80° 25' 12" W (25.063)

SITE 2 32° 29' 35" N (583)
80° 24' 52" W (86) North side

* One reading per site

Cumberland Island

SET 1 30° 43.678' N
81° 28.491' W

2. 30° 47.156' N
81° 28.510' W

3. 30° 48.440' N
81° 28.487' W

The paper in this book is made of 50% high grade rag stock with a WATER RESISTING surface sizing.

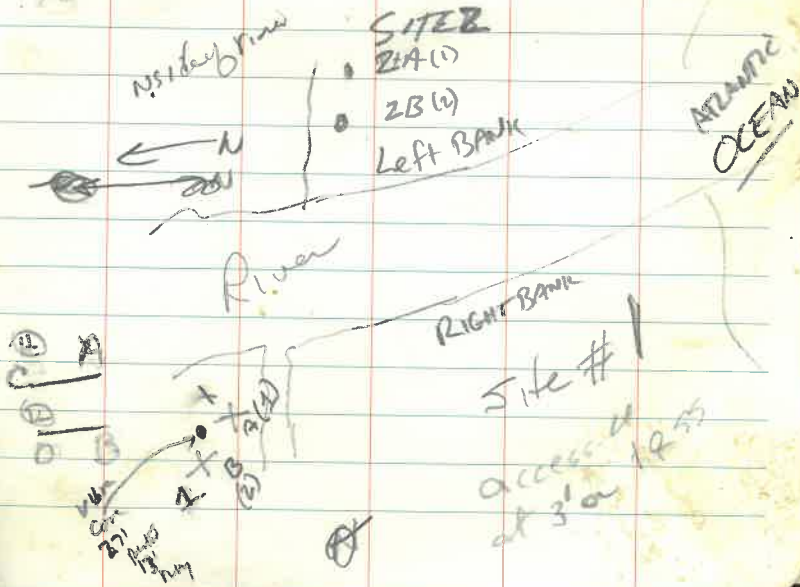
[illegible]

ACE
BASED.

initial leading 4/23/97

A	B	C	D
---	---	---	---

	A	B	C	D
	NW	NE	SW	SE
1	25.1	24.3	23.1	24.6
2	25.2	25.0	22.9	21.9
3	25.4	23.9	23.5	21.8
4	21.0	22.7	23.6	19.8
5	23.9	22.9	19.6	14.2
6	22.1	24.6	26.4	22.6
7	23.9	21.7	21.2	21.0
8	24.3	21.5	26.5	19.7
9	22.9	23.4	25.1	—



4-23-97

N side of River Site A

30' tube vibro core

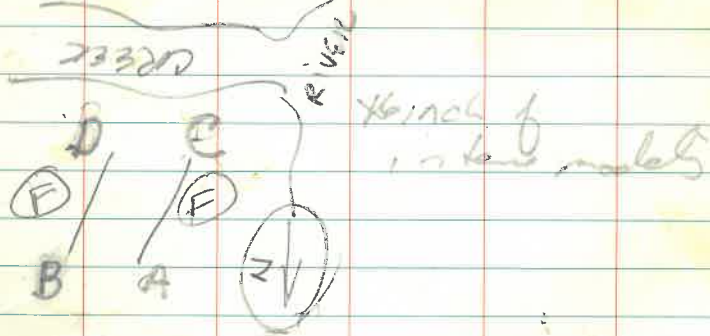
* Bring logs for cleaning rods

1 B

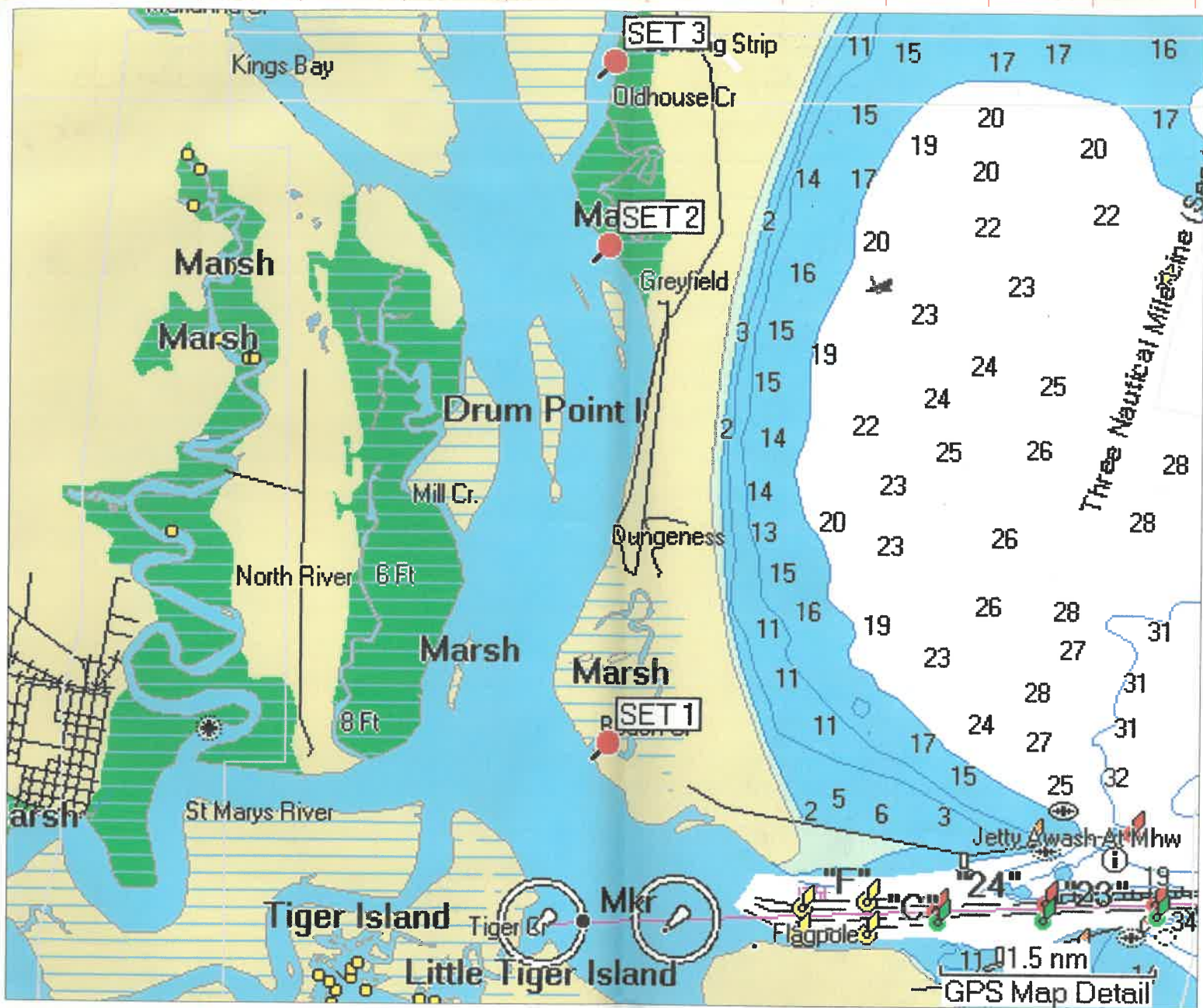
S. Site No

Initial Reads 4/23/97

	A	B	C	D
	NW	NE	SW	SE
1	20.6	20.0	20.0	20.5
2	24.4	19.6	20.9	20.4
3	22.5	19.8	21.4	19.4
4	22.3	19.7	21.4	20.3
5	24.0	20.4	15.6	20.4
6	23.5	20.0	20.6	20.1
7	22.3	20.3	19.0	19.9
8	22.5	21.1	21.5	20.2
9	22.9	21.5	20.6	20.2



Site accessible
4.2' on level



Site

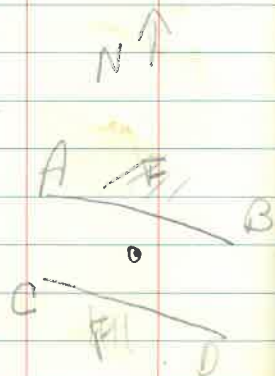
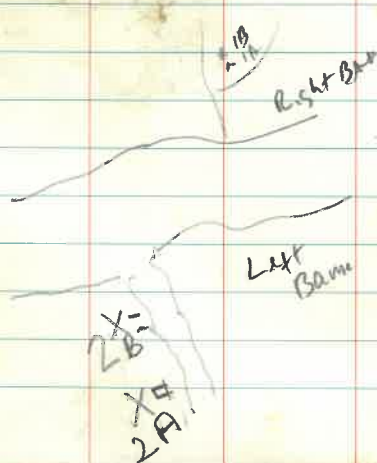
2. A

2nd one you
come to

4/24/97

initial reads

	A	B	C	D
	NW	NE	SW	SE
1	21.5	13.9	20.5	14.3
2	17.8	9.4	12.1	18.6
3	15.4	17.6	24.0	22.5
4	12.8	16.3	23.9	18.6
5	13.5	19.3	22.8	20.3
6	4.6	15.4	21.3	23.1
7	8.5	12.8	18.5	13.4
8	11.7	15.8	25.7	15.7
9	19.8	17.0	22.0	10.1



Site

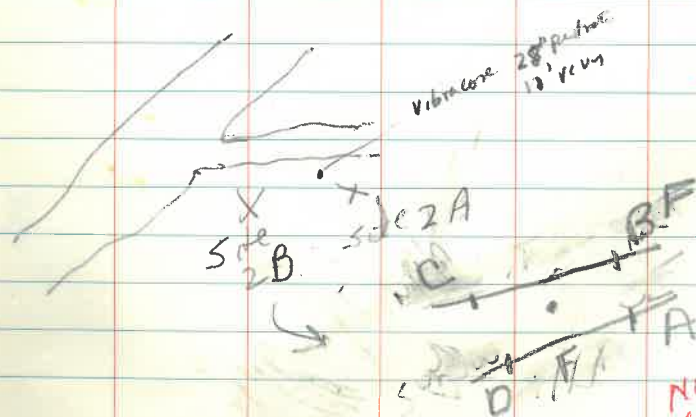
2 B

* 1st one
you come
to

4/24/97

initial reads

	A	B	C	D
	NW	NE	SW	SE
1	29.2	25.3	32.5	12.1
2	29.0	25.3	30.5	14.3
3	29.3	16.1	33.7	27.0
4	29.4	18.0	31.3	14.6
5	22.8	15.5	19.9	23.1
6	22.3	15.1	29.8	20.8
7	30.1	24.8	30.9	24.8
8	32.1	22.9	33.6	25.8
9	24.4	26.3	26.6	21.2

NOT
LETTERED
CORRECTLY

8-1-97

STA. 1A Right BANK

#1A

	A NW	B Ne	C SW	D SE
1	21.6	21.4	19.4	20.3
2	19.2	20.6	21.3	20.4
3	23.5	21.4	20.6	19.2
4	20.4	19.4	20.6	20.3
5	22.9	22.9	18.0	20.1
6	20.0	21.2	20.2	19.3
7	7.6 ^{CH}	20.4	18.1	20.3
8	23.4	15.6	18.2	19.5
9	21.7	18.8	21.7	20.2

Cryo-

1
2
3
4

initial cryocooling
with Chalk-Rick
Run - Jim Chety

STATION 1A

#1B

	A NW	B Ne	C SW	D SE
1	20.3	19.9	24.8	23.8
2	23.6	21.8	22.3	18.4
3	21.9	22.3	22.0	16.2
4	23.2	21.0	20.5	20.4
5	20.5	21.3	22.7	19.2
6	19.1	24.0	24.6	14.7
7	22.6	22.9	20.9	20.2
8	18.1	21.2	21.5	10.5
9	22.4	18.6	22.7	

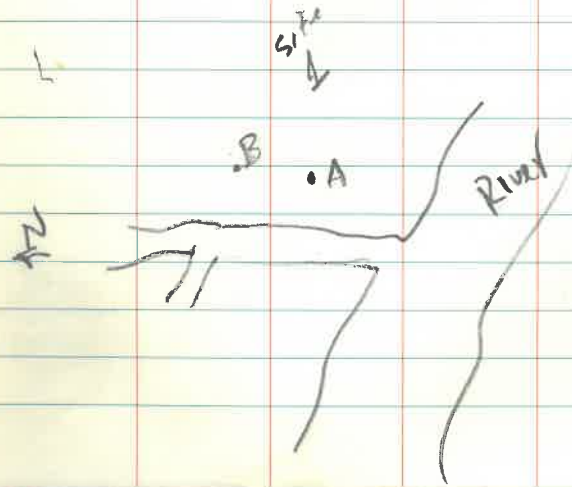
AC

Cryo 25.0

2

3

4



STATION Z

2A

8-1-97

Use this - Plot

Pin

	A	B	C	D
1	24.9	12.2	19.9	12.2
2	17.0	9.4	25.3	18.8
3	9.7	7.3	9.4	21.6
4	18.4	12.8	20.6	11.6
5	17.4	17.9	25.0	21.8
6	11.7	8.0	22.4	23.3
7	21.8	9.7	19.6	21.3
8	22.0	13.3	26.0	18.9
9	11.2	14.3	27.8	15.7

Random in

Pin

1	28.7	26.9	26.1
2	28.5	26.2	26.9
3	28.5	26.7	x
4	28.8	26.5	26.9
5	28.4	27.2	x
6	28.6	26.7	27.4
7	29.0	26.5	27.4
8	28.6	26.6	27.5
9	28.3	26.6	27.3

STATION 2

2B

8-1-97

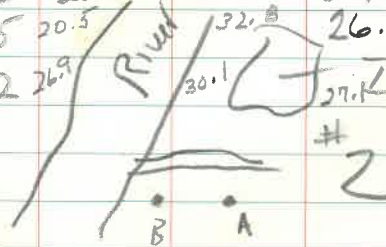
Disc

	A	B	C	D
1	35.9	32.9	37.8	31.0
2	35.5	31.2	x	32.4
3	35.2	x	x	x
4	35.4	31.2	36.9	32.9
5	x	31.5	37.0	x
6	35.6	x	37.8	x
7	x	31.1	38.1	31.9
8	x	31.0	38.0	33.6
9	x	30.1	38.0	34.4

Use this - Plot

Pin

1	29.3	21.3	28.1	19.0
2	28.6	22.7	31.0	24.8
3	29.9	12.5	35.2	28.1
4	34.4	22.4	31.8	21.6
5	25.2	25.3	28.6	27.5
6	29.2	15.7	30.7	24.8
7	32.8	22.5	30.9	24.6
8	29.5	20.5	32.8	26.3
9	30.2	26.9	30.1	27.4



2/4/98

STATION

1A

Pins

Pins

A NW B NE C SW D SE

1	19.9	21.9	23.1	21.0
2	22.7	22.0	23.2	21.7
3	20.9	22.2	23.8	20.8
4	21.5	19.8	23.9	23.1
5	19.6	21.7	24.8	22.5
6	23.3	22.4	24.0	20.8
7	23.5	20.9	24.4	22.5
8	21.0	21.5	26.2	22.9
9	22.2	22.3	23.3	21.3

2/4/98

STATION 1B

A B C D

1	23.3	23.2	23.5	21.1
2	23.1	22.4	24.1	21.4
3	25.8	22.4	21.9	21.1
4	23.5	22.9	24.8	21.2
5	24.2	21.9	24.4	19.6
6	22.7	22.4	21.7	22.8
7	23.8	22.8	24.7	19.3
8	23.5	22.2	22.3	19.3
9	23.9	22.8	22.7	21.5

BD
C

1 22.2

2

3

4

2/4/98

Station

2A

NOTA

BNE

Csw

DSE

1	25.8	33.0	25.4	28.5
2	25.7	32.3	22.3	29.4
3	25.9	32.8	23.9	30.0
4	25.6	33.3	22.6	28.5
5	25.7	32.8	21.8	28.7
6	25.6	34.0	21.8	30.4
7	26.2	35.7	22.2	31.5
8	25.6	33.4	23.8	32.6
9	25.6	34.1	21.3	29.4

2/4/98

STATION

2B

A

B

C

D

1				
2				
3				
4				
5				
6				
7				
8				
9				

Under 110

4/25/98

5/21/21
7:45 AM

5/20/00

7:45 AM

ANW	BNE	C5W	DR
-----	-----	-----	----

1	21.9	23.9	22.2	26.4
2	21.9	21.1	25.8	26.2
3	22.0	20.6	24.3	23.5
4	17.1	23.6	26.7*	23.0
5	20.3	19.7**	23.3	22.6
6	20.8	20.5	23.3	21.3
7	17.6	20.7	23.9	21.3
8	17.8	19.4**	25.5	24.5
9	19.6	20.9	24.8	21.5

A2

Cryo	1	12.55
	2	8.7
	3	8.1
	4	5.7

* put new field span
inside OC 6/24/98
whole length

2. 7. 7

12

at 7.45
all land

4 on grow

xx crab hole

Ditch

624 km

Station 2B

54

A	B	C	D
---	---	---	---

1	22.1	20.6	19.7	22.2
2	20.9	20.8	20.6	21.6
3	17.5*	19.9	22.7	22.0
4	20.6	19.6	21.8	21.2
5	21.1	21.5	22.3	20.4
6	21.4	19.6	20.2	22.5
7	20.2	20.3	22.2	18.2
8	22.1	22.9	21.9	18.9
9	21.6	18.5	21.9	20.3

C ₁₄ O	C	D
-------------------	---	---

1	21.8	11.9
2	32.1	9.5
3	34.5	

7 * 5 peak
at 9.4
new cd

* at 8:00 land
st. all
Tide 6'

~~← referred wrong~~

6/25/98

Station 1A

	A	B	C	D
1	25.5	23.5*	30.8	31.7
2	27.5	29.3	30.9	32.1*
3	28.7	26.4	31.0	29.5*
4	22.4	30.7*	32.8	32.5
5	28.8**	31.6**	28.9	31.0
6	25.9	33.3*	22.6	31.9
7	20.6	26.9	27.3	33.7**
8	26.9	26.9	28.0	31.7
9	29.7	28.0	30.0	32.0

Taken

6:30 PM

6/25
put new
felt tip
at
A, D
x hole
xx on grass

* at 6' both 1A + 1B by L
covered

8:15 AM wood - 6" below H₂O

6/25/98

Station 1B

	A	B	C	D
1	22.0	18.6	25.2**	19.1
2	14.6	22.9	20.8	25.2
3	18.2	25.1	16.3	13.0*
4	14.1	22.5	22.6**	22.1
5	17.1	21.1	15.8	21.6
6	16.4	23.2	20.4	15.3*
7	9.6*	25.4	9.3*	29.1
8	14.1	15.4	21.4	26.3
9	17.9	23.0	14.6	22.7

new felt tip
inside C & D put dam

x hole
xx grass



8:15 AM wood still above H₂O

Taken 7:00 PM

* 16 1/2 minute to 1A from
marker 165

32 minutes boat trip from Band AT site

12/8/98

STATION

A

2.25 - 1120 depth 4.3'

A NW

B NW

C SW

D SE

1	34.3	37.4	39.2	41.3
2	34.7	36.6	39.6	41.8
3	33.7	37.0	37.5	41.4
4	34.0	36.0	39.2	41.4
5	33.0	36.1	39.0	41.2
6	33.4	36.4	38.3	41.4
7	33.8	36.6	39.5	40.0
8	33.3	35.8	38.6	41.1
9	33.7	36.7	38.2	41.4

Cryo 8.69 mm ?wood at H₂O level at 6.3ft* can do ^{1A & 1B} between

3.8' & 5.8' water depth

~ 1 1/2 hour window

* Exposed gravel at 5.0' or less

on the date 7/4 hrs for

1A & 1B

12/8/98

STATION

1B

1:55 PM

water level 5' - bottom 114" or 4" down each

A

B

C

D

1	28.4	26.5	26.8	32.6
2	28.0	28.4	26.8	32.7
3	*	27.3	25.8	33.3
4	27.0	28.0	26.8	33.8
5	27.5	28.4	24.4*	32.5
6	26.6	27.9	26.0	32.6
7	27.2	27.7	25.3	32.2
8	27.5	28.0	24.9	33.9
9	25.9	27.6	25.5	33.3

Cryo

Cryo

BD
25.1?

* 8.94 mm ?

* out hole

site 1 average = $8.69 + 8.94 = \frac{17.63}{2} = 8.82$

12/8/98

STATION 2A

	A	B	C	D
1	21.9	21.3	22.4	19.5
2	21.2	21.7	22.2	20.2
3	19.0	22.5	23.4	21.0
4	20.1	19.0	20.4	20.2
5	19.9	20.3	23.1	20.9
6	19.2	20.6	23.0	19.9
7	19.9	20.6	23.7	21.8
8	19.3	20.7	21.6	21.4
9	19.5	20.7	20.4	20.3

-1.29 mm

Cryo

$$\text{site 2 average} = \frac{-1.29 + 1.39}{2} = \frac{.1}{2} = .05 \text{ mm}$$



12/8/98

STATION 2B

11:01 AM
NW

	A	B	C	D
1	20.4	21.1	21.6	21.5
2	19.2	22.5	23.4	24.6
3	20.3	23.6	24.3	22.8
4	19.4	22.0	23.4	25.2
5	20.6	21.1	23.6	23.6
6	22.1	23.2	26.8	24.0
7	21.1	22.5	22.4	23.1
8	19.5	*	20.5	23.3
9	* *	21.8	23.6	22.3

* could be

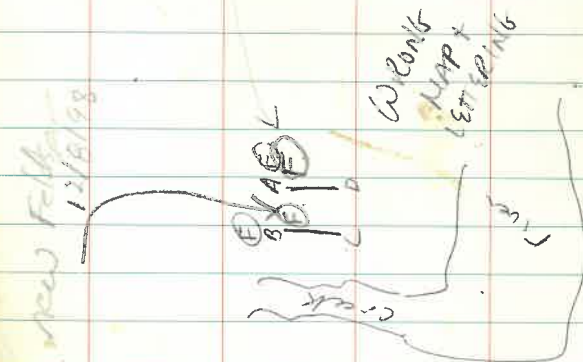
* black

1.39 mm

Cryo

① 7.7.6.7

BUT DOWN



Jim L.
Dehner

11:00 AM
4/20/99

NARSA NOT
INUNDATED
RISING TIDE

FIDUCIAL
CRAGS

SITE 1A Right Bank

	A NW	B NE	C SW	D SE
1	27.2	29.4	30.2	28.5
2	26.8	29.5	28.7	29.8
3	28.5	28.6	29.7	29.6
4	26.8	27.9	29.5	30.2
5	26.7	28.2	29.4	30.4
6	27.2	28.4	29.9	29.1
7	26.1	27.5	29.9	29.1
8	27.8	26.5	29.1	29.4
9	Washed	28.4	29.7	28.6

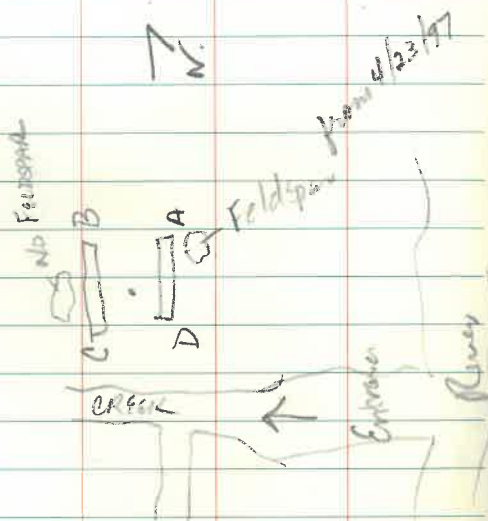
Cryo 1 57.45

2 54.4

3

4

OLD SET MACHINE



FGB
MID MARCH
BIG STORMS

(.005 mm BLASTING
CLEAR GLASS)

VERY LOW
SPARTINA
HIGHER ELEV

SITE 2A IB Right Bank

	A NW	B NE	C SW	D SE
1	25.2	26.6	CRAGS 29.8	27.2
2	24.5	26.4	CRAGS 29.8	26.3
3	24.6	26.6	26.9	26.3
4	24.4	27.3	27.3	26.9
5	24.1	27.1	27.8	26.8
6	24.2	27.3	27.1	26.6
7	24.8	26.5	26.8	25.5
8	24.5	CRAG 24.9 MILE	26.1	26.7
9	24.9	27.1	27.4	27.0

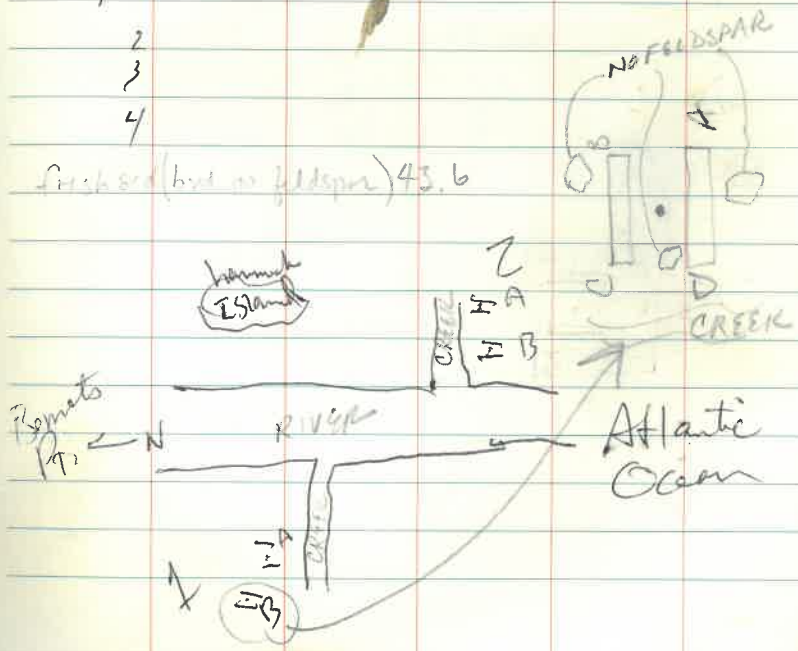
Cryo 1

2

3

4

Sketch of (hole in feldspar) 45.6



HIGH STARTINA

SITE 2A Left Bank

	A NW	B NE	C SW	D SE
1	29.3	30.0	31.1	34.3
2	29.2	30.5	31.4	34.1
3	29.2	30.9	32.0	33.2
4	29.3	29.8	32.7	34.3
5	29.1	29.9	31.5	34.5
6	28.9	30.4	32.7	33.9
7	29.1	25.4 ^{hole}	32.0	33.9
8	29.1	30.7	31.7	33.9
9	29.3	30.4	32.1	33.8

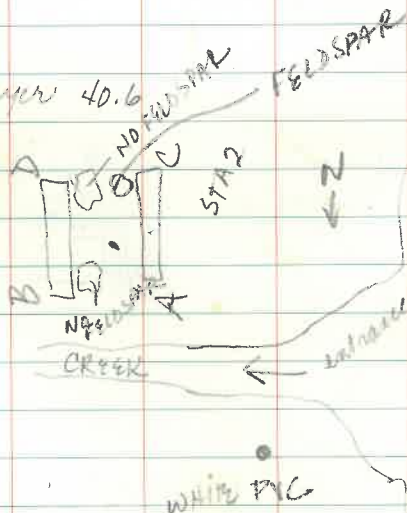
Cryo 1

2

3

4

New sed/hot layer 40.6



D-C
70.7
58.9
FLECK ONLY
put 100
6-20-88
OR
12-8-98

9:00 AM CLEAR WINDY RISING TIDE
10:23 AM DONE 100 TH HARBOR NOT INUNDATED

SITE 2B Left Bank

	A NW	B NE	C SW	D SE
1	35.1	38.0	40.3	41.8
2	34.0	37.2	39.3	42.6
3	34.0	37.9	38.2	42.8
4	34.6	37.6	40.1	42.1
5	32.3	37.6	38.7	42.9
6	33.1	37.8	38.4	42.3
7	34.7	35.5	39.7	42.5
8	34.5	38.6	39.6	42.5
9	33.5	38.1	34.6 ^{hole}	42.9

Cryo 1

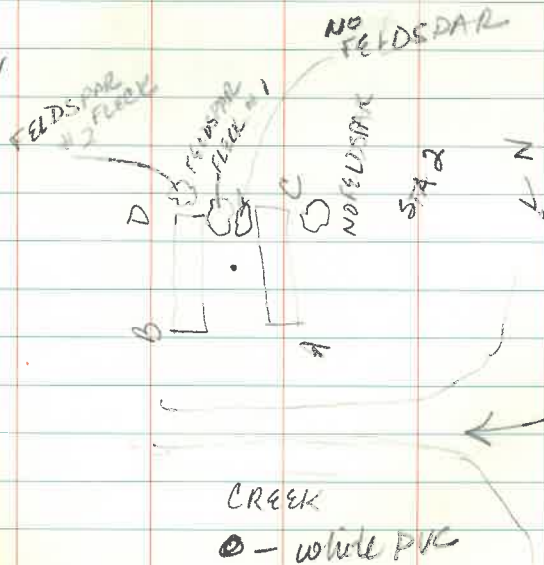
2

3

4

D-C
32.8 FLECK
#1

D
33.3 FLECK #2



CREEK
● - white PVC

4/21/99 CLEAR, CALM

TIDAL INFO SITE 2

(2B) HIGH TIDE 11³⁰ over station 4/20/98
300 up to boards

MAX HEIGHT OF TIDAL WATER @

HIGH TIDE 2' 13" - DURATION?

MIN HEIGHT OF TIDAL WATER @

LOW TIDE 0" BOTH

STATION 2B - LOW TIDE 4/21/99
TO TOP OF BOARD 13 3/4

@ A

TOP MUD 5 3/4
TO TOP PIPE

PIPE (1) 25' 7" @ 940 AM
TO EDGE OF CREEK 25' 7" @ 940 AM

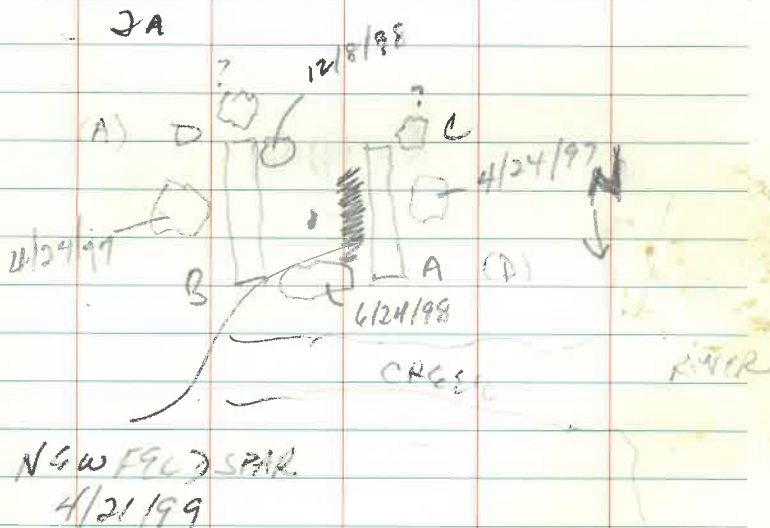
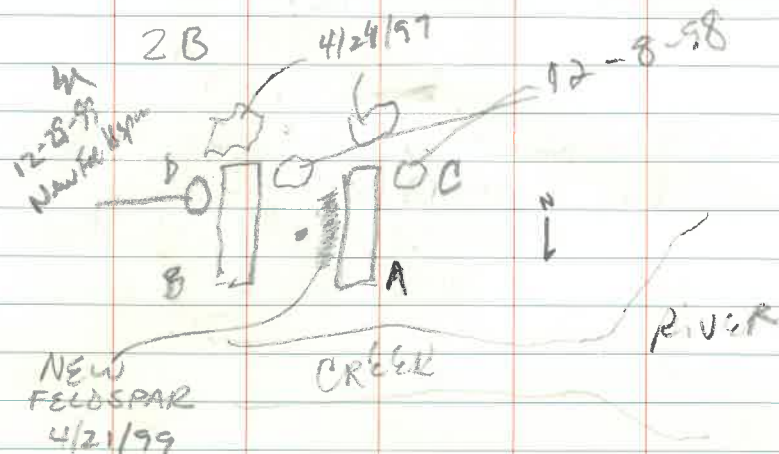
STATION 2A - LOW TIDE 4/21/99
TO TOP OF BOARD 11 3/4

@ A

TOP MUD 8 1/2"
TO TOP PIPE

PIPE (1) TO
EDGE CREEK 31' @ 940 AM

FELDSPAR MAPS



TIDAL INFO SITE 1

HIGH TIDE

MAX HEIGHT OF WATER @ HIGH TIDE 0"

DURATION 0

MIN HEIGHT OF WATER @ LOW TIDE

0" FOR BOTH

STATION 1B

10²⁸ AM

TO TOP BOARD

16 1/2"

TOP MUD TO PIPE

10 3/4"

PIPE 1 TO CREEK / BANK EDGE 27'

+ terrace / water 36'

STATION 1A

10³⁹ AM

TO TOP BOARD

15 1/2"

TOP MUD TO PIPE

10"

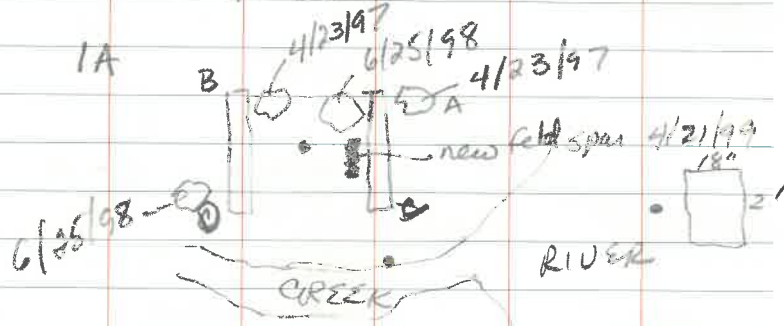
PIPE 1 TO CREEK / BANK 24 1/2'

+ terrace to water

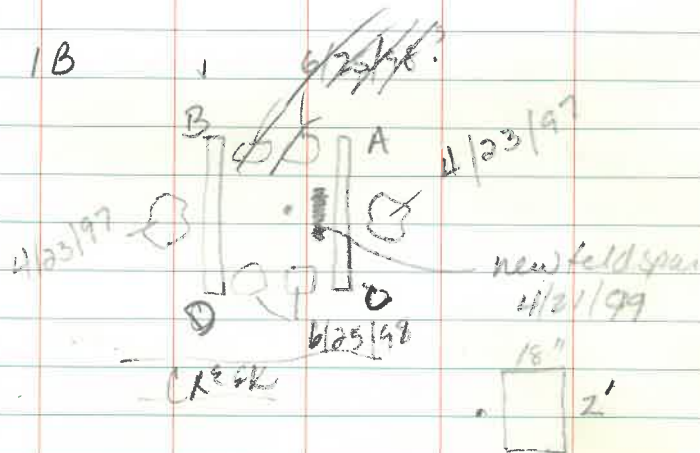
34'

ST 1A lower elevation @ bank
than 1B

FELDSPAR MAPS



1B



4/21/99

HYDROPERIOD

SITE 2B

Neap Tide
1st Qtr. moon 4/22/99
11¹²

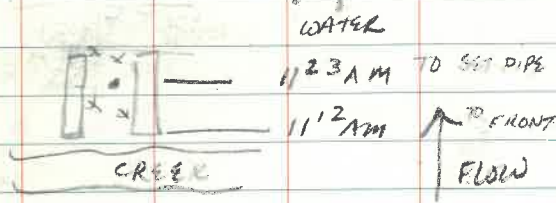
Hi 12:57 PM 7.1

Lo 7:29 AM 0'

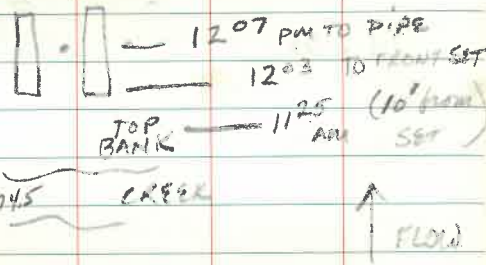
Hi 7:30 PM 6.0

Lo 7:00 AM 0.1

front
water to edge of set station



SITE 2A

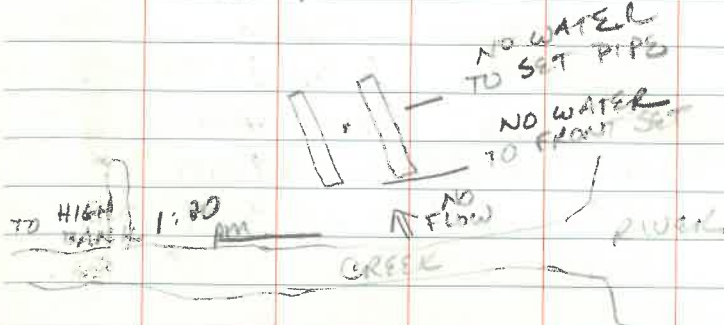


Time	Flow Tide
11:12	6.5 4.1
11:23	6.4 4.4
11:25	6.4 4.4
12:03	6.0 5.1
1:20	4.0 6.0
1:32	4.0 6.0

15
3:53 PM - 4.4 PM
11:23 AM - 4.4 rise
3:20 AM up

HYDROPERIOD

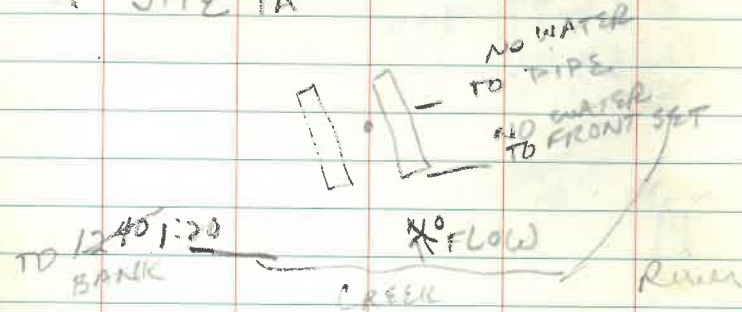
SITE 1B



12:46
1:20
TIDE STILL RISING AT STA 1 BUT NOT UP TO TOP OF HIGH BANK YET
NO OVERBANK FLOW

1:32 Left side falling tide now

SITE 1A



Left side at 1:32
CLEAR, WINDY

SPR 10.49
5:42 AM 4.4
4/16/99 5.07

12-27-99

LADNER

ACE BASIN

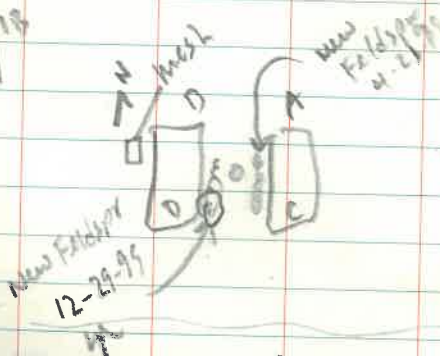
Right
Bank

SITE 1A

	A	B	C	D
1	28.2	29.4	33.4	30.1
2	27.6	30.3	33.0	28.9
3	28.6	29.2	29.8	28.8
4	28.2	28.6	31.6	30.9
5	28.5	27.7	32.0	29.2
6	27.4	28.6	32.4	29.7
CH → 7	22.0	29.4	33.0	30.6
8	28.1	29.0	32.8	29.0
9	black	30.1	31.9	28.7

Cryo 1	62.34	Storm layer No Feldspar
2	66.97	
3	63.04	
4		

1/1B



Crown

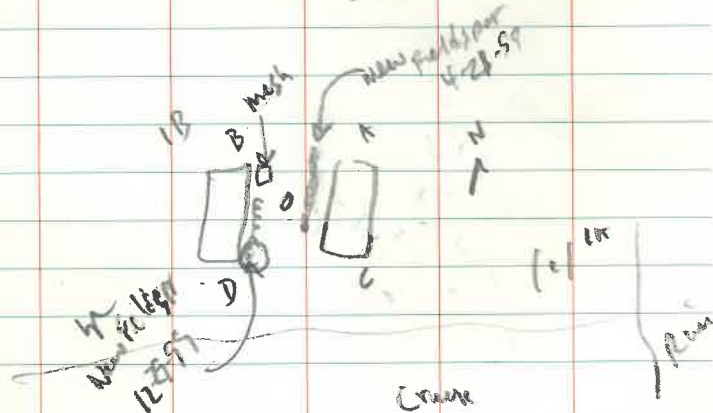
ACE BASIN

12-27-99

SITE 1B

	A	B	C	D
1	25.9	27.2	27.9	27.4
2	26.1	26.9	28.2	27.2
3	24.9	27.4	28.6	26.9
4	24.8	27.3	27.4	26.7
5	25.3	28.1	29.0	26.7
6	25.6	26.6	28.8	28.1
7	25.8	26.9	28.7	27.4
8	24.9	27.1	28.6	27.6
9	24.9	27.4	28.7	27.7

Cryo 1	52.44	Storm layer No Feldspar
2	55.70	
3		
4		



Crown

LET
BANK

ICE BASIN 12-28-55

SITE ZA

	A	B	C	D
1	31.3	33.2	32.6	34.1
2	31.8	32.6	32.7	33.6
3	32.0	33.0	31.9	33.8
4	32.1	32.4	32.2	34.4
5	31.6	32.9	33.0	33.9
6	31.6	32.4	32.9	34.6
7	33.0	31.9	33.3	34.0
8	31.0	31.7	32.4	33.8
9	30.9	33.2	32.7	34.1

Cryo 1	34.30
2	36.2
3	34.77
4	

NO FELDSPAR

OR MATION

Storm

layer

NO FELDSPAR

RIGHT
DAILY



view

River

ACE BASIN 12-28-55

SITE ZB

	A	B	C	D
1	30.0	32.3	34.3	36.3
2	29.8	33.1	35.0	36.4
3	29.7	34.0	33.9	34.9
4	30.1	31.9	36.6	35.0
5	29.5	32.2	35.2	34.6
6	28.6	32.4	35.9	34.3
7	31.1	32.9	36.1	30.9 How!
8	30.8	32.6	34.8	33.9
9	28.9	33.3	34.9	35.1

AC	
Cryo 1	37.07
2	33.11
3	34.92
4	35.81

Only oxidation layer
NOT FELDSPAR
Storm
layer
NO FELDSPAR



rising
fast
near
W-W wind

Feldspar
Gone!
4-21-55

Creek

River

3/21/00 ACE BASIN

SITE 1A

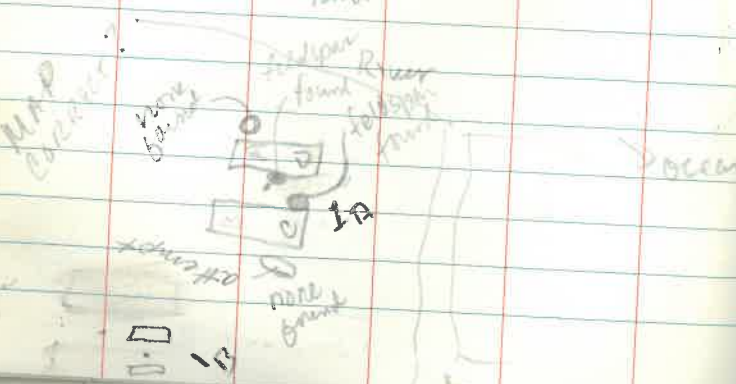
A NW B NE C SW D SE

1	23.5	24.1	31.0	28.8
2	24.8	24.1	28.9	27.3
3	24.8	24.7	20.5	24.4
4	23.3	24.7	29.1	25.6
5	24.6	25.1	25.4	28.1
6	25.0	26.5	24.0	26.3
7	23.0	26.6	26.5	25.7
8	23.8	26.1	26.6	27.5
9	block	26.9	24.4	26.4

12 29.44
inside 4-21-99
A B

Cryo

1	14.9
2	41.1
3	45.3
4	thick broken up 42.2



ACE BASIN 3/21/00

SITE 1B

A NW B NE C SW D SE

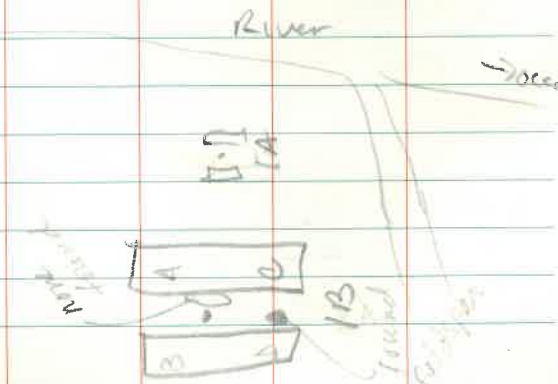
1	22.8	22.3	19.8	22.5
2	21.9	23.1	24.1	24.0
3	20.5	25.3	25.0	23.7
4	23.7	21.3	23.3	23.9
5	23.7	20.8	20.0	23.0
6	21.8	20.1	22.8	22.2
7	24.3	24.0	23.5	23.1
8	23.8	20.5	25.5	24.1
9	20.5	21.3	23.6	21.8

12 29.44

Cryo

1	4.0
2	3.6
3	5.8
4	5.7
5	4.2
6	5.1

Good
nibs



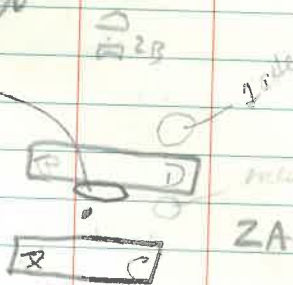
10:00 AM
5:24 PM ACE BASIN SITE 2
3-23-00 SITE 2 (2A)

	A NW	B NE	C SW	D SE
1	28.2	26.5	30.9	33.1
2	28.3	25.8	32.8	32.4
3	28.3	24.0	31.9	31.1
4	28.7	22.2	31.7	33.1
5	28.4	26.0	30.3	31.8
6	29.2	22.2	31.5	31.8
7	28.0	25.5	32.0	32.3
8	28.1	21.2	32.5	32.5
9	28.1	20.8	33.3	32.2

Cryo D

1		28.15 over mesh
2	no field spn	
3		
4		

new field spn
3-23-00



River

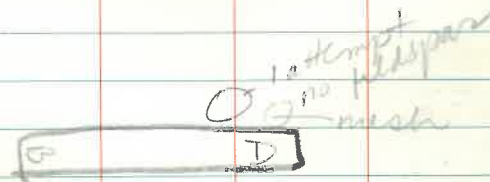
Ocean →

10:00 AM
5:24 PM ACE BASIN SITE 2
3-23-00 SITE 2 (2B)

	A NW	B NE	C SW	D SE
1	25.3	35.0	28.7	34.5
2	26.3	17.7	32.7	39.3
3	27.5	35.8	32.0	33.1
4	30.9	32.9	29.8	37.9
5	29.8	35.7	35.1	38.2
6	30.7	37.1	29.5	37.3
7	28.2	36.4	32.7	35.8
8	25.2	38.5	29.3	36.0
9	28.5	36.2	34.2	36.2

Cryo

1		28.8 over mesh
2	no field spn	28.9
3		
4		



2B

new field spn
3-23-00

River

→ Ocean

June 4 24-00 ~~SET 1~~ ~~Cumbarland~~ Beach Creek 11:25 AM started

RON H

ACE BASIN 8-15-2000

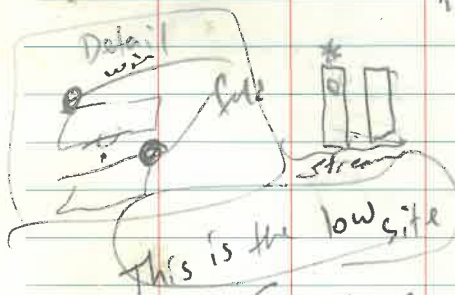
SITE 1 A Left BANK

#1	A NW	B NE	C SW	D SE
1	37.5	40.0	42.4	30.5
2	37.5	40.5	40.2	32.3
3	35.6	37.4	40.3	31.9
4	37.4	38.2	39.8	34.1
5	36.7	40.2	40.0	33.0
6	36.6	36.8	39.6	27.7
7	36.2	39.0	39.4	34.1
8	36.1	38.0	39.5	33.0
9	36.6	37.9	35.9	19.1*

Cryo 1	A-C (inside)
2	9.7
3	
4	

~~Chabolo~~

* feldspar put at end of D



See MAP →

SITES 1A, 1B

RON H
Jim C

15' sites
extended

8-15-2000
Started ~ 10:45 AM

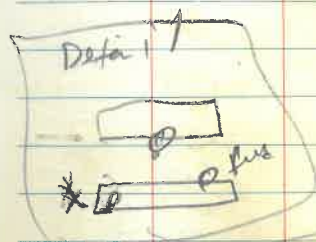
ACE BASIN

SITE 1 B Left BANK

	A NW	B NE	C SW	D SE
1	31.1	32.2	30.1	35.0
2	29.0	30.4	32.6	34.1
3	25.9	32.4	33.1	30.9
4	30.9	29.1	32.1	35.1
5	30.8	31.2	31.7	35.3
6	29.9	31.3	33.0	32.9
7	30.6	30.3	32.2	34.8
8	30.5	30.2	32.8	28.7
9	28.9	32.5	32.9	31.3

Cryo 1	A-C (inside)
2	10.2, 9.7
3	28.0 Δ
4	↳ borings?

* feldspar put at end of D 8/10/00



OCEAN

Lot Site 2

A
B

SITE 2

→ N

Ron H
Jim L ACE BASIN 8-15-2000

SITE 2A

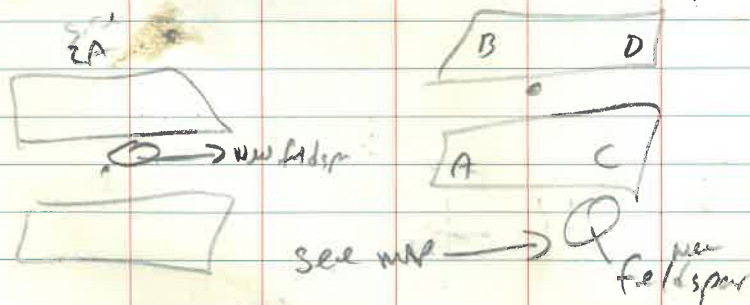
Right Bank

	A NW	B NE	C SW	D SE
1	27.2	29.9	29.1	28.3
2	26.4	27.2	28.3	27.8
3	29.1	27.2	27.5	28.1
4	28.2	28.4	27.5	28.6
5	28.4	29.0	29.5	24.3
6	27.5	27.4	28.5	27.4
7	26.0	25.9	28.5	28.2
8	26.0	27.6	27.1	29.9
9	26.6	27.6	28.7	28.6

Cryo 1
2
3
4

B-D 7' with evidence of crab holes
* wire
2' (crab)

Detail for field spec in 2A



Jim L
Ron H

ACE BASIN

8-15-2000

SITE 2B

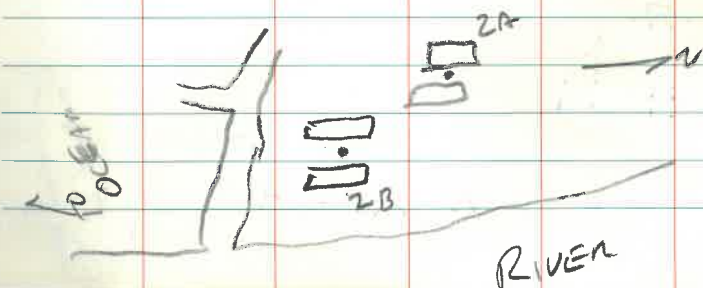
Right Bank

	A NW	B NE	C SW	D SE
1	26.0	30.6	27.6	30.8
2	29.3	30.0	30.8	30.0
3	30.8	30.7	29.0	31.0
4	29.3	31.1	30.5	32.2
5	28.5	31.5	29.8	31.4
6	29.5	30.6	28.6	29.4
7	27.1	30.4	28.6	30.1
8	29.4	31.0	29.7	31.8
9	blocked	31.2	29.5	31.3

Cryo 1
2
3
4

16.2
29.7
26.4, 28.0
25.9

* crab hole



6/27/01 ACE BASIN Jim L
Brian C.
SITE 1 (Left Bank)

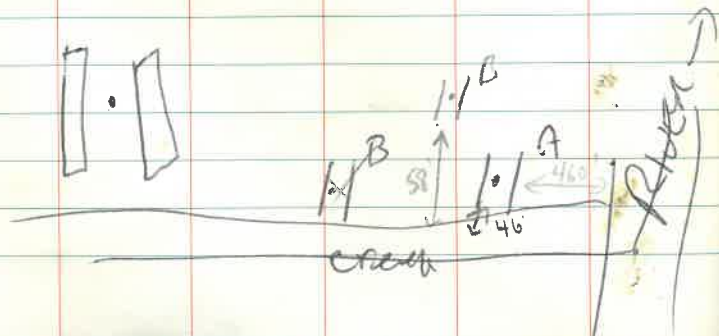
	STA. A (nearest to river)			
	NW A	NE B	SW C	SE D
1	28.2	31.1	31.3	30.3
2	30.5	31.4	31.4	30.2
3	30.2	30.5	32.5	29.7
4	30.0	33.3	31.6	31.0
5	29.5	30.0	31.0	32.4
6	29.6	31.2	31.1	29.5
7	28.6	30.6	31.4	30.3
8	28.7	30.6	31.4	32.6
9	blocked	32.7	31.1	31.6

Cryo 1

2

3

4



6/27/01

SITE 1

STA B

	NW A	NE B	SW C	SE D
1	27.0	29.2	27.7	28.1
2	27.6	27.8	28.6	27.6
3	25.9	28.1	29.4	28.4
4	26.4	25.9	28.2	28.2
5	26.7	28.1	27.0	28.5
6	26.5	27.3	29.4	28.7
7	26.4	28.3	27.4	28.8
8	26.4	27.2	28.3	29.9
9	26.3	28.4	30.5	29.0

2D

Cryo

42.11

Trimmed
top of
Wire

ACE BASTIN 6/27/01
SITE 2

STA A

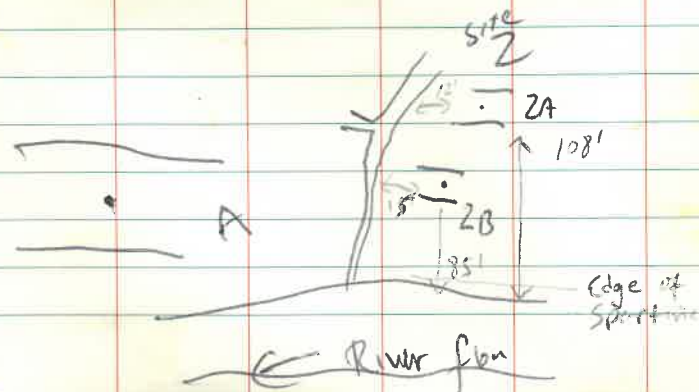
	A NW	B NE	C SW	D SE
1	30.9	31.8	33.9	35.8
2	30.7	32.5	33.4	35.3
3	31.0	32.2	32.6	35.2
4	30.5	31.9	31.7	34.9
5	31.3	31.9	32.6	34.2
6	30.2	32.3	33.1	35.3
7	30.4	32.1	32.9	35.5
8	30.8	32.3	33.2	35.2
9	29.6	32.1	32.3	34.5

Cryo 1

2

3

4



SITE 2

STA B

	A NW	B NE	C SW	D SE
1	38.6	39.6	41.4	43.3
2	38.1	39.0	41.1	43.3
3	38.1	39.5	40.4	43.3
4	37.5	40.3	40.6	43.2
5	38.6	39.8	41.0	42.9
6	37.2	39.9	40.0	42.7
7	32.9*	39.1	40.9	43.8
8	37.3	39.5	40.5	43.1
9	36.6	39.2	40.1	43.8

* Add elevation of lock tube *

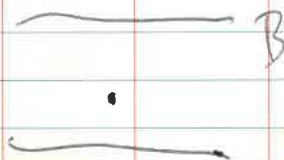
Cryo 1

2

3

4

* missing boards & crosspiece *



* carry screw driver for oysters *

Rt. Bank

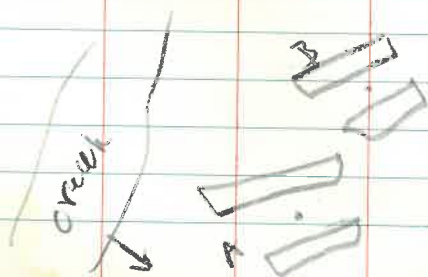
SITE 1

12-10-02

A (1)

#	A NW	B NE	C SW	D SE
1	26.0	31.4	29.8	31.2
2	26.1	30.0	29.1	30.3
3	26.5	29.0	29.5	30.7
4	22.9	30.5	28.8	32.6
5	24.7	29.4	28.5	30.6
6	26.0	29.5	29.5	31.0
7	26.7	29.0	28.4	31.0
8	25.3	29.5	28.8	31.0
9	X block	28.9	28.7	30.6

Cryo

1
2
3
4

SITE 1

2:00 PM

B (2)

#	A NW	B NE	C SW	D SE
1	26.5	27.3	26.1	23.8
2	26.9	26.1	25.4	23.6
3	26.5	28.3	26.5	24.1
4	26.4	28.5	28.4	23.7
5	25.5	26.7	26.4	24.3
6	27.2	28.6	26.3	23.8
7	26.9	27.4	27.8	24.2
8	22.4	27.9	25.7	25.2
9	27.0	27.7	26.8	24.3

Cryo

1
2
3
4

2/10/02

Site 2 A

2/10/02

ANW BNE CSW DSE

1	21.3	30.7	25.4	25.9
2	20.7	33.4	26.5	25.9
3	24.4	34.7	28.0	23.8
4	24.5	31.7	23.0	27.2
5	24.5	27.3	26.6	28.7
6	24.2	23.2	25.7	24.9
7	23.9	29.4	25.8	25.0
8	21.9	32.4	27.7	21.0
9	16.5	23.6	25.6	21.7

2/10/02

Cyrc

1
2
3
4

reptiles
band

Site 2 B

2/10/02

ANW BNE CSW DSE

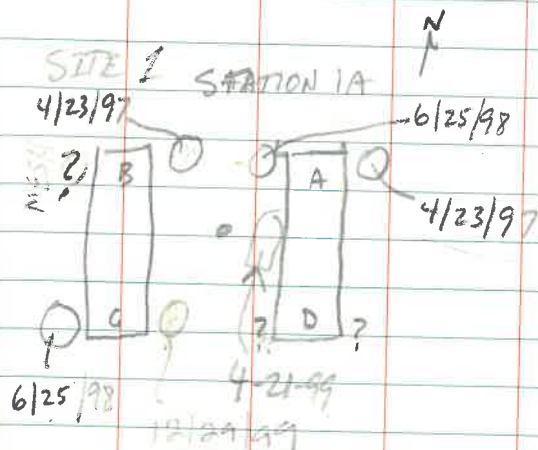
1	33.3	37.4	36.3	41.2
2	34.6	37.2	34.9	34.3
3	36.9	37.7	22.6	33.9
4	32.1	36.4	37.5	36.0
5	32.6	35.9	37.9	28.1
6	22.9	38.2	40.0	34.3
7	34.3	37.4	38.4	23.6
8	33.3	33.9	38.1	27.5
9	32.5	39.4	37.2	24.1

Cyrc

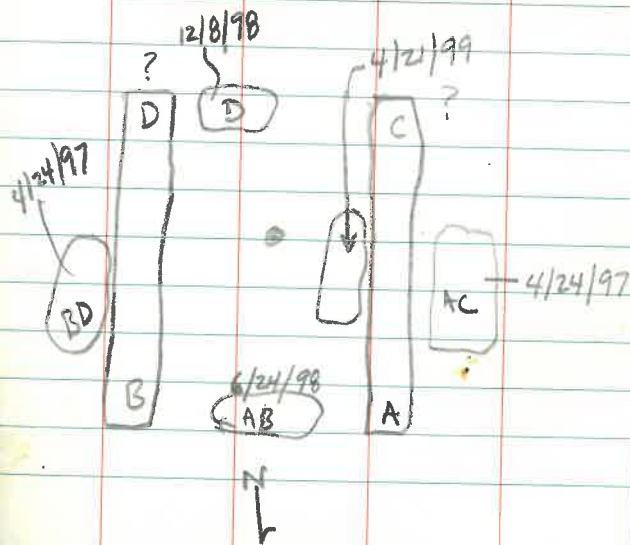
1
2
3
4

ACE BASIN

FEEDSPAR HISTORY



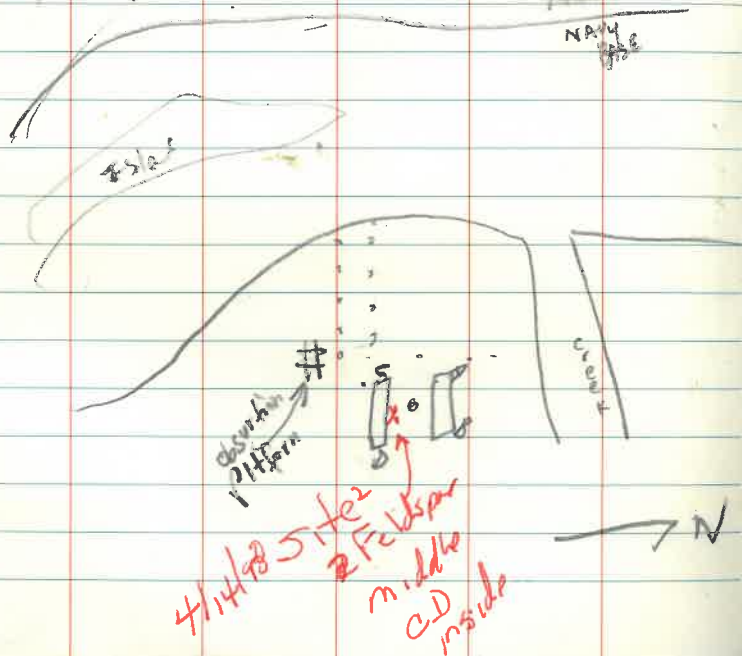
SITE 2 STATION 2A



CUMBER LAND ISLAND

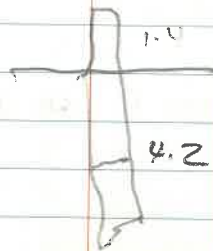
SITE 2 Initial Readings
6/11/97 Jim L.

	NWA	NEB	SWC	SED
1	38.4	37.3	39.7	34.7
2	37.2	37.4	37.8	35.1
3	36.2	36.7	37.4	34.5
4	36.5	36.5	38.3	34.3
5	38.0	37.4	37.4	36.6
6	38.0	36.9	36.7	35.9
7	37.8	37.0	36.9	33.1
8	36.1	37.1	37.4	33.9
9	38.2	37.2	36.4	34.2



2" Push Core

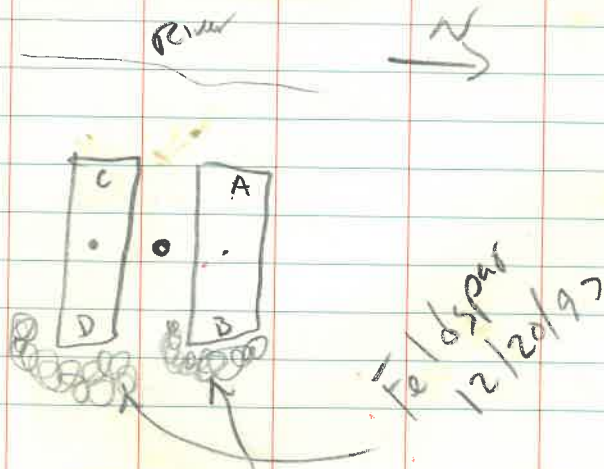
Outside 1.4'
Inside 4.2
10' fur



Piston Core

2.6' Revrd

2" ~~slippage~~ slippage



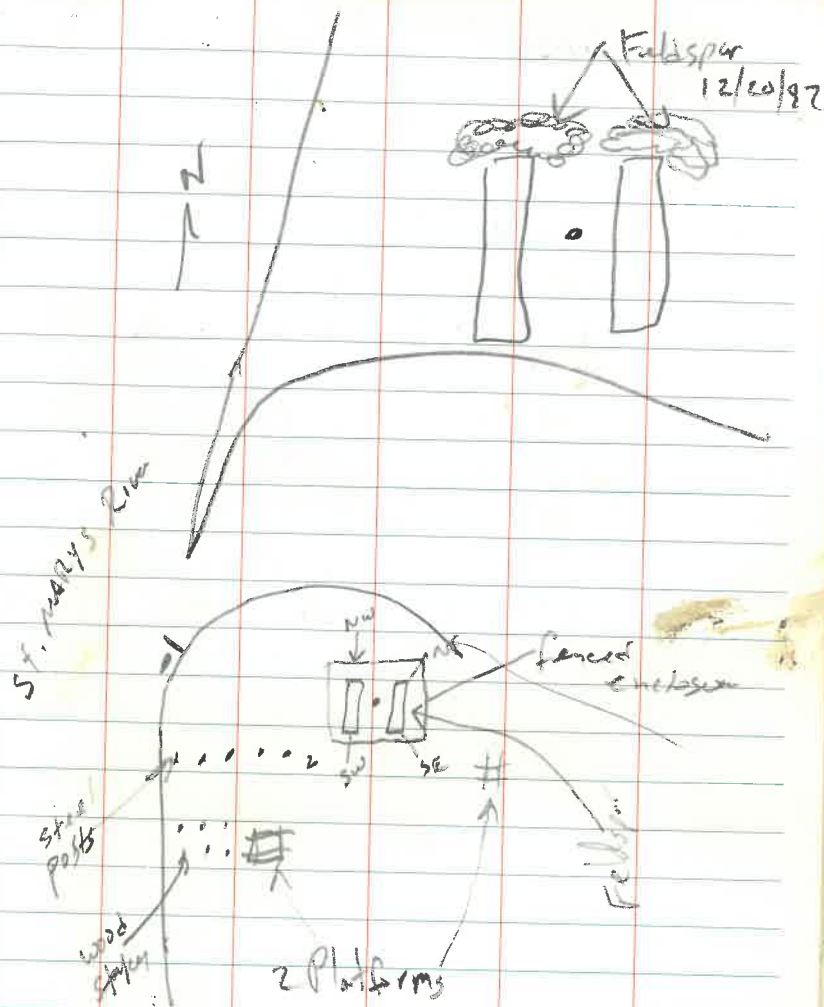
6/14/97 Cumberland Isle

SET #1

54/94

	NW A	NE B	SW C	SE D
1	36.1	35.6	36.1	36.4
2	31.5	36.0	36.3	35.6
3	33.4	35.5	36.0	35.9
4	34.1	35.6	35.6	33.1
5	34.8	34.9	34.3	35.1
6	36.0	34.9	34.9	36.3
7	33.0	36.7	35.4	36.8
8	33.9	32.5	38.2	32.7
9	31.7	37.0	40.4	36.6

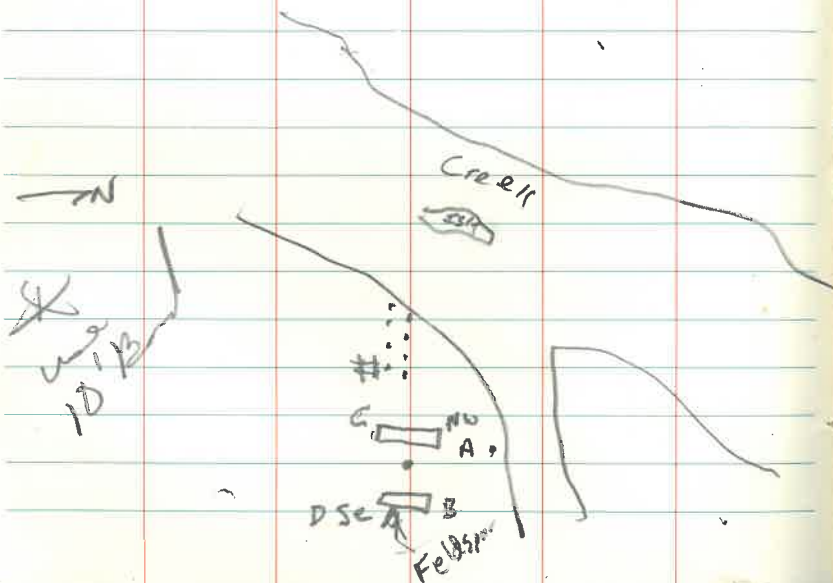
Piston Core: 2.7' Recovered



6/12/97 Cumberland Island

SET # 3

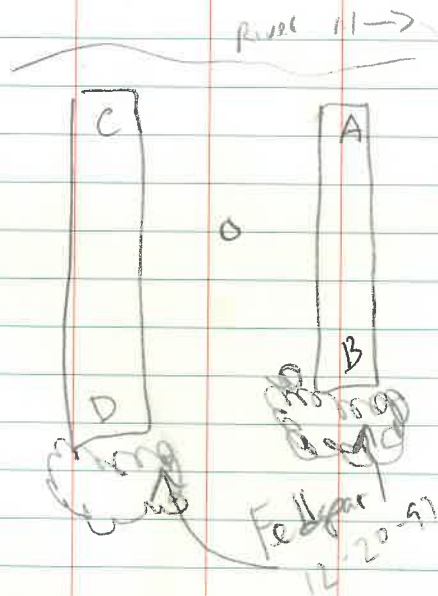
	NW A	NE B	SW C	SE D
1	11.9	14.8	11.5	12.5
2	17.4	12.8	12.6	15.4
3	12.6	10.7	12.8	12.9
4	16.2	14.9	14.3	13.2
5	13.8	13.0	13.3	14.1
6	15.2	15.1	13.5	13.5
7	12.0	13.6	11.0	13.9
8	13.1	15.0	12.5	14.6
9	13.6	10.6	14.0	13.9



12-20-97 1:00pm

STATION 2 (Across from BASE)
NAVY

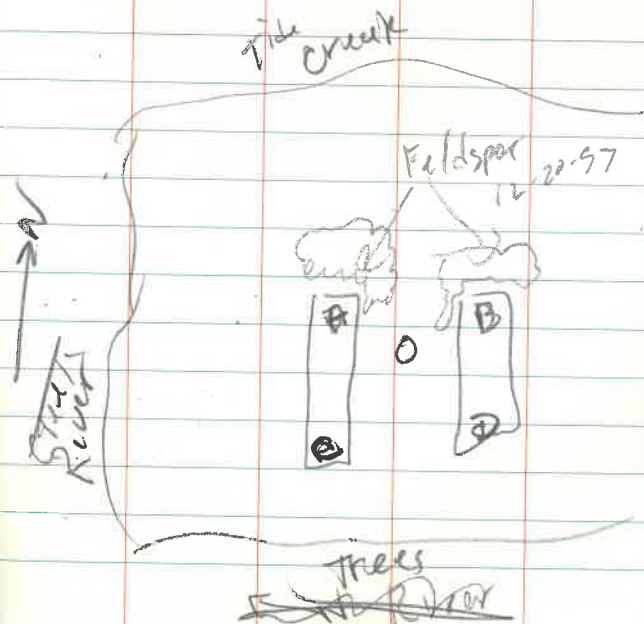
	NW (A)	NE (B)	SW (C)	SE (D)
1	37.6	37.7	37.5	37.1
2	35.7	37.1	36.9	32.9
3	37.9	38.7	37.3	36.4
4	38.0	37.5	39.5	36.6
5	36.9	37.3	37.3	37.1
6	37.8	37.1	35.9	35.8
7	38.7	38.8	37.1	36.3
8	37.3	37.5	37.8	36.0
9	36.3	37.9	37.6	37.4



12-20-97 2:00pm

STATION 1

	SW (C)	NE (B)	NW (A)	SE (D)
1	36.0	35.9	35.9	36.9
2	37.7	35.3	34.6	34.7
3	36.9	38.9	33.2	37.0
4	37.2	33.8	36.1	35.3
5	37.3	33.5	34.4	37.5
6	38.1	37.6	35.3	39.2
7	40.4	36.9	36.0	36.3
8	38.3	35.5	34.5	37.2
9	36.9	35.6	34.5	37.7



wood
stick

4-14-98

SET #1

NW

NE

SW

SE

* horse
hooks

A

B

C

D

1	37.1	35.6	36.7	* 27.4
2	38.1	37.5	37.6	* 27.9
3	34.3	33.7	38.9	37.2
4	37.3	34.3	37.5	36.6
5	35.9	39.2	35.2	37.6
6	36.3	36.4	35.7	35.7
7	39.0	37.8	39.4	38.6
8	35.7	39.2	35.7	38.7
9	36.1	33.3	36.3	37.0

NW
ANE
B

Cryo

* *

also

1	20.4	28.4
2	20.75	29.1
3	20.05	31.0
4	<u>19.95</u>	

Bring wire - this
is camped by horses

* $\Delta = +1.31 \text{ mm}$

SET #2

NW

A

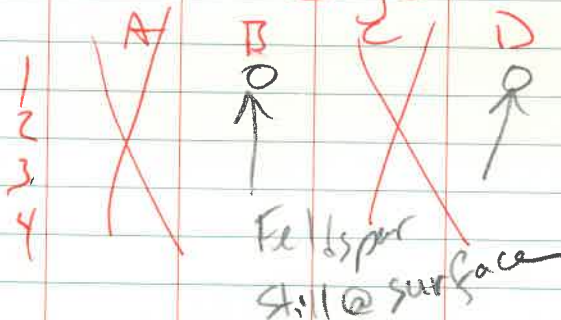
B

C

D

1	38.1	38.2	38.9	36.1
2	38.0	37.4	37.7	38.0
3	38.7	36.9	38.8	37.5
4	38.4	38.1	39.0	37.6
5	37.6	37.3	37.1	38.1
6	37.5	35.9	36.8	38.2
7	36.6	37.4	37.2	37.5
8	37.6	36.7	37.1	37.6
9	39.4	35.9	37.1	39.0

Cryo

* no horses at this site
feldspar blebs on surface at
D and B

* $\Delta = +.47$

4/14/98 site 1 - steel

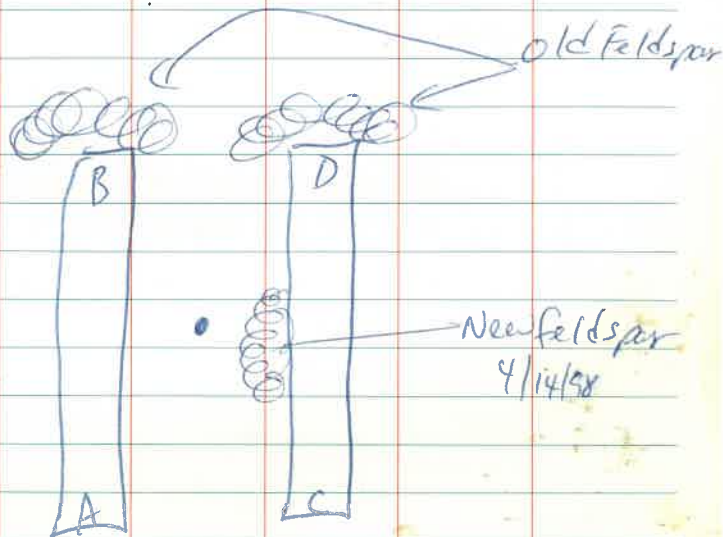
large
hoof

	A	B	C	D
1	37.0	35.5	36.6	27.3*
2	38.1	37.6	37.5	27.9*
3	34.3	33.6	38.9	37.7
4	37.2	34.3	37.5	36.6
5	35.8	39.1	35.7	37.6
6	36.9	36.4	35.7	35.7
7	38.9	37.7	39.4	38.5
8	35.6	39.2	35.6	38.6
9	36.2	33.3	36.8	37.0

SITE 2

New Feldspar

4/14/98



Chen
JinL

11/24/98

SITE 1

	A NW	B NE	C SW	D SE
1	34.5	34.4	37.4	36.9
2	36.3	36.0	37.0	37.9
3	36.0	37.2	36.8	37.5
4	36.1	37.8	38.0	39.4
5	34.4	37.5	37.3	35.2
6	34.6	36.5	37.8	36.9
7	37.5	33.8	38.2	38.3
8	36.6	35.7	37.7	39.0
9	35.6	36.8	37.8	38.4

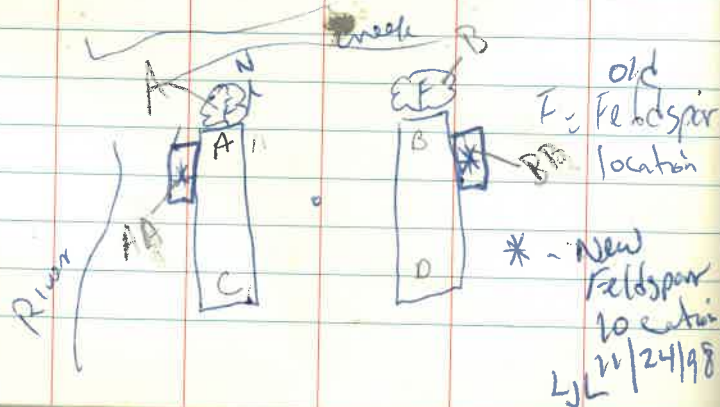
CRYO 1

2

3

4

4 Attends @ A & B ...

No Feldspar - put out
new FeldsparChen
JinL

11/24/98

Site 2

	A NW	B NE	C SW	D SE
1	35.6	36.8	37.1	35.8
2	37.5	37.1	37.8	36.1
3	35.9	36.8	36.0	33.9
4	36.1	37.3	37.8	35.6
5	36.8	37.4	36.2	36.6
6	37.0	36.9	35.2	35.2
7	37.6	37.0	36.5	35.0
8	36.2	36.8	36.9	36.1
9	36.7	36.6	36.9	37.2

CRYO

2

3

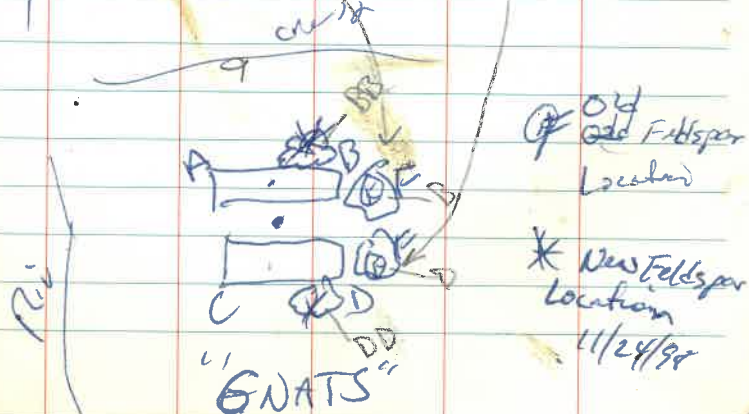
4

8.4 mm

10.5 mm

8.1 mm

8.1 mm



SITE 1

Creek

Chen
Mary

	A	B	C	D
1	36.0	37.6	35.3	39.1
2	37.1	38.1	36.4	39.2
3	38.0	37.8	35.2	39.5
4	37.5	39.4	37.6	39.6
5	37.0	38.4	36.5	40.8
6	37.1	38.2	36.7	39.8
7	36.5	ch	36.1	39.0
8	37.2	40.4	37.6	39.7
9	37.2	40.0	34.5	39.1

Grp

1	16.4
2	13.2
3	17.9
4	

Missing board

2nd	14.3
12.3	15.6
	15.7

fields
present
discon-
tinuous

total creek

F	F
A	B
C	D

river

6-10-98

SITE 2

	A	B	C	D
1	38.2	37.4	38.4	37.7
2	37.5	38.0	39.1	37.9
3	38.6	37.9	38.1	36.2
4	37.1	36.5	39.7	36.7
5	37.4	37.5	38.4	36.6
6	38.4	36.8	37.5	36.4
7	36.1	37.4	37.0	36.7
8	37.5	37.4	38.5	37.1
9	37.8	37.7	37.2	37.6

	D	B
Cryst 1	9.6	7.2
2	12.7	12.8
3	12.7	5.9
4	13.8	9.3

1A 9 (F)

1C D (F)

river

12/21/99

SITE 2

Jim L

Missing
BOARD

A

B

(cm)

D

C

1	36.5	37.1	39.6	38.1
2	32.4 (CH)	35.0	38.5	37.1
3	36.7	36.0	39.0	36.5
4	38.9	36.5	37.9	38.6
5	35.5	38.6	39.5	38.0
6	37.0	37.5	37.8	37.2
7	37.9	37.6	36.2	34.1 (CH)
8	35.9	39.7	39.4	37.6
9	36.0	39.1	38.5	38.1

AA

A

B

Cryo

1

2

3

4

Misc

11

1

1

Pond Foldy for
11-24-99old
12/20/99

A

A

C

C

B

Cryo

B

B

D

D

D

XV
Camberland
Self
Sounded

C

Also: Bring
board +
move away
from C locCamberland
Self
Sounded

Camberland

Is

Site 2

Brown E

Jim L

12-30-99

(Retry)

A

B

C

D

1	39.9	39.2	40.2	39.4
2	40.1	41.1	41.0	39.9
3	41.0	42.2	40.6	40.1
4	40.6	40.6	41.3	35.7
5	40.8	41.4	40.4	39.8
6	40.4	40.8	40.7	40.5
7	39.4	40.1	40.9	40.9
8	41.0	39.9	40.0	41.0
9	41.2	40.2	40.6	39.8

D

Cryo

1 10.2

2 14.4

3 14.8

4

traces only

4-24-00

Cumberland Is

SITE 1 - Beach Creek

	A NW	B NE	C SW	D SE
1	38.8	41.7	40.4	42.6
2	40.3	39.4	38.2	41.0
3	40.2	40.9	39.1	36.4
4	38.1	40.3	38.3	39.8
5	39.1	39.6	38.6	40.1
6	38.5	40.0	38.7	38.3
7	37.5	41.0	36.9	38.3
8	36.8	40.7	37.4	40.4
9	36.5	40.2	41.0	39.6

Cryo 1 5.32

2 5.07

3

4

2 2000 readings

A

A2

B

B2

New Field
4-24-00

13.29
12.29
13.67
13.40

D reads

4-24-00

Cumberland Is

30° 47' 11.2" N

81° 28' 28.2" S

SITE 2

	A NW	B NE	C SW	D SE
1	38.6	37.1	39.3	35.2*
2	39.8	37.2	28.8	38.2
3	38.9	37.9	36.7	38.7
4	38.0	34.8*	39.8	37.9
5	37.5	38.1	39.1	38.4
6	38.6	38.5	37.5	39.6
7	39.6	41.1	36.8	38.2*
8	38.7	38.0	38.5	36.1
9	39.8	38.2	37.5	38.6

Cryo 1

2

3

4

DR

20.1 14.33

19.35 20.09

C

D

* cracks

10-2-00

Cumberland
Site #1

	A	B	C	D
1	37.2	38.7	38.6	CH
2	38.0	38.2	37.2	38.7
3	38.3	39.4	38.5	38.4
4	36.1	38.0	38.3	39.1
5	37.7	38.0	38.0	40.3
6	37.8	37.4	38.0	39.6
7	38.3	CH	38.6	39.7
8	37.8	39.0	CH	39.7
9	37.2	39.2	38.1	39.9

AA2

1	18.0
2	18.8
3	12.7
4	17.7
	19.6

38.9



10-2-00

Cumberland
Site #2

	A	B	C	D
1	38.4	37.3	37.6	38.7
2	37.9	37.5	38.2	38.2
3	38.5	CH	36.5	37.2
4	37.3	37.9	39.5	36.7
5	38.4	37.1	36.6	37.6
6	37.4	37.4	36.5	39.0
7	37.0	36.0	38.6	34.8
8	37.2	37.7	36.5	38.7
9	38.1	37.1	38.8	38.5

Cryo

1	DD
2	18.3
3	16.6
4	16.8

Zomb
No Field

River

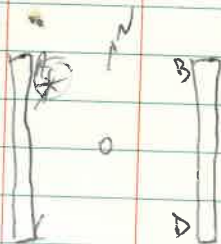
6/21/01

St. L. - Briar C. Cumberland Island Station 1

	A	B	C	D
1	40.4	43.7	42.7	42.3
2	40.5	43.4	40.4	39.7
3	39.7	45.1	41.7	40.4
4	40.3	43.4	42.1	44.4
5	40.2	44.2	42.0	41.5
6	42.3	44.6	41.9	42.6
7	40.1	43.6	39.6	45.6
8	40.7	44.0	43.2	43.0
9	41.5	45.3	41.7	43.4

Cryo AA 2

1	12.71
2	11.65
3	10.67
4	12.60
5	12.01

95 ft
to creek

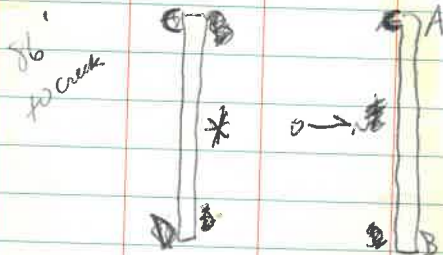
6/21/01

St. L. - Briar C. Cumberland Island Station 2

	A	B	C	D
1	37.6	36.8	37.7	40.6
2	38.6	38.1	38.1	37.9
3	38.4	38.3	35.7	39.6
4	37.8	37.8	34.1	38.0
5	36.8	38.4	36.2	38.2
6	38.2	37.8	38.4	38.3
7	38.6	38.4	36.6	39.1
8	38.0	38.9	37.9	37.3
9	38.5	38.1	36.3	38.2

Cryo CD

1	20.22
2	22.39
3	26.91
4	27.90
5	28.47



2mBS 1/16 pm Cumberland Is 3/18/02

SITE 1 (STA 1)

	A	B	C	D
1	40.6	41.2	41.0	40.5
2	38.2	38.8	39.9	42.4
3	38.5	42.0	40.9	41.5
4	39.1	41.6	39.6	42.3
5	38.3	41.1	38.7	41.6
6	38.5	43.0	38.9	41.9
7	39.1	40.9	39.6	42.4
8	39.7	42.2	39.4	42.0
9	39.4	37.7	39.8	42.0

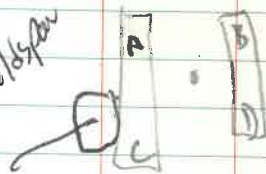
AAZ

Cryo 1 21.54
2 15.92

3
4

SAL 28.5 ppt
Temp 22.0 °C
Cond 43.82 μ m

LADNER
3/18/02
New Feb 16 pm



Cumberland Is 3/18/02

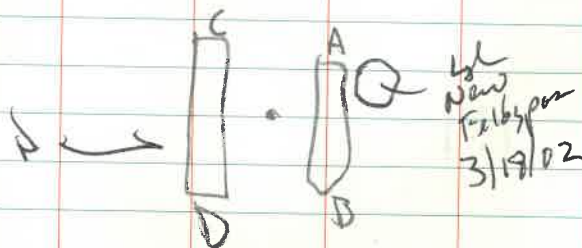
SITE 2 (STA 2)

	A	B	C	D
1	37.7	39.4	39.4	38.5
2	39.1	38.1	38.8	38.1
3	39.0	35.1	37.5	38.5
4	38.8	38.5	38.7	38.2
5	37.9	38.0	38.0	37.8
6	38.4	38.9	37.5	39.0
7	39.6	38.9	39.4	38.1
8	38.2	37.7	38.5	38.2
9	37.3	39.0	39.1	39.8

Cryo 1 24.48 } May be root-
2 24.46 } disturbed

3
4

SAL 27.3 ppt
Temp 23.3 °C
Cond 42.34 μ m



LADNER
3/18/02
New Feb 16 pm

Cumberland Is 1/28/03

SITE 1

A NW B NE C SW D SE

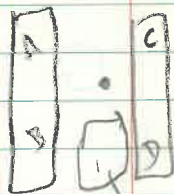
1	39.7	41.2	39.4	41.2
2	40.1	41.0	40.4	37.9
3	39.3	42.0	40.1	41.0
4	38.2	41.7	40.1	41.5
5	38.0	41.2	39.3	39.6
6	39.6	41.3	37.8	40.1
7	37.8	40.6	38.6	39.7
8	39.4	41.2	40.8	40.1
9	39.3	40.5	40.7	41.7

39.0 41.2 39.7 40.3 = 40.1

Crab

1
2
3
4

Seven attempts no crabs



New Pile
1/28/03
Lal

1/28/03 Cumberland Is

SITE 2

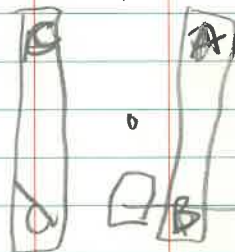
A NW B NE C SW D SE

1	39.4	41.3	41.0	39.2
2	38.6	38.8	38.8	38.5
3	39.5	37.8	39.2	39.6
4	39.0	38.5	39.9	38.8
5	36.2	37.4	38.4	37.7
6	38.1	37.3	40.1	39.6
7	38.6	38.7	38.1	39.2
8	38.9	38.8	39.5	38.8
9	39.8	38.5	38.5	40.1

Crab 1 38.7 38.6 39.3 39.1 = 38.9

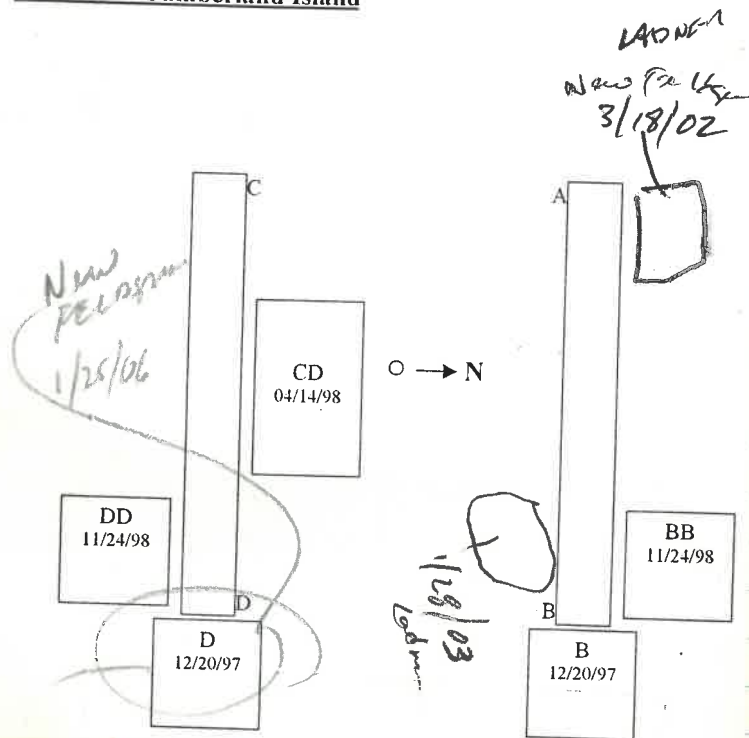
4

Three attempts no crabs

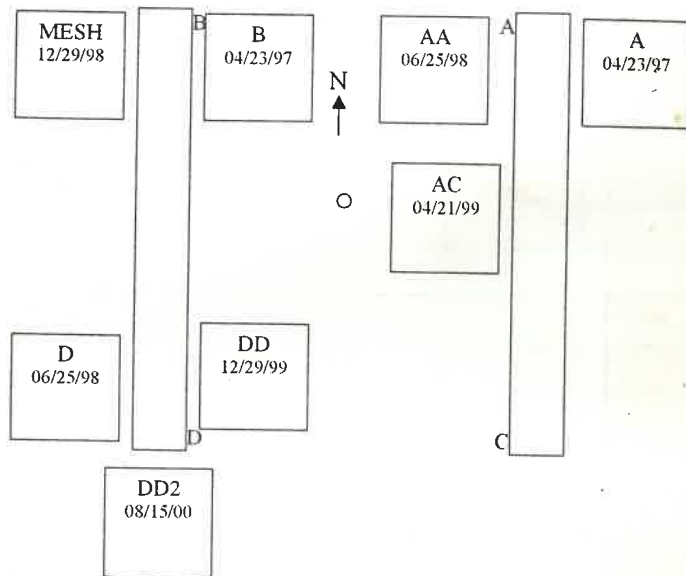


New Pile
1/28/03
Lal

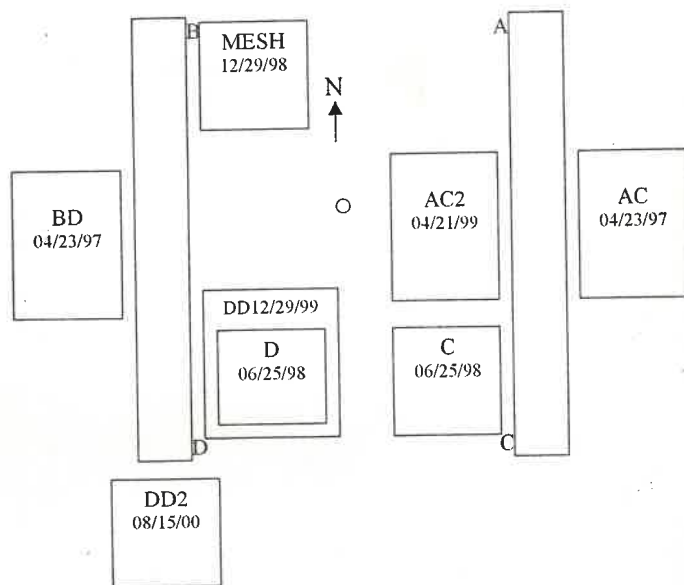
Station 2—Cumberland Island



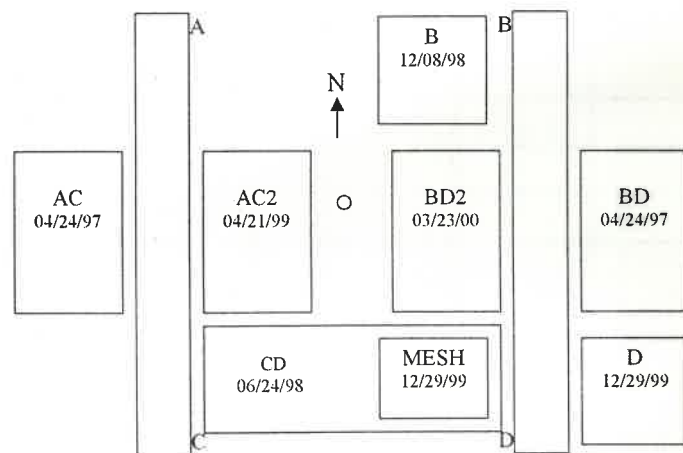
Station ~~A~~ ACE Basin #1



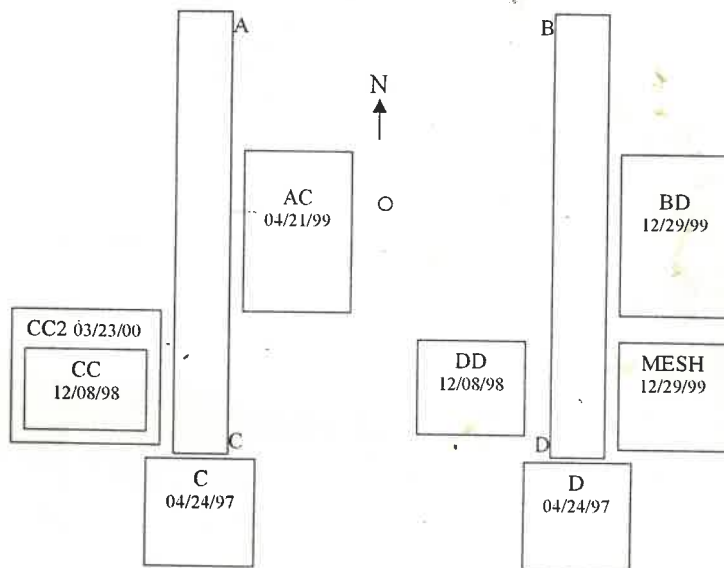
Station B — ACE Basin #1



Station A — ACE Basin #2



Station ~~2~~ — ACE Basin #2



CURVE TABLES

HOW TO USE CURVE TABLES

Table I. contains Tangents and External to a 1° curve. Tan. and Ext. to any other radius may be found nearly enough, by dividing the Tan. or Ext. opposite the given Central Angle by the given degree of curve.

To find Deg. of Curve, having the Central Angle and Tangent: Divide Tan. opposite the given Central Angle by the given Tangent.

To find Deg. of Curve, having the Central Angle and External: Divide Ext. opposite the given Central Angle by the given External.

To find Nat. Tan. and Nat. Ex. Sec. for any angle by Table I.: Tan. or Ext. of twice the given angle divided by the radius of a 1° curve will be the Nat. Tan. or Nat. Ex. Sec.

EXAMPLE

Wanted a Curve with an Ext. of about 12 ft. Angle of Intersection or I. P. = 23° 20' to the R. at Station 542 + 72.

Ext. in Tab. I opposite 23° 20' = 120.87
 $120.87 \div 12 = 10.07$. Say a 10° Curve.

Tan. in Tab. I opp. 23° 20' = 1183.1
 $1183.1 \div 10 = 118.31$.

Correction for A. 23° 20' for a 10° Cur. = 0.16
 $118.31 + 0.16 = 118.47 = \text{corrected Tangent.}$

(If corrected Ext. is required find in same way)
 Ang. 23° 20' = $23.33^\circ \div 10 = 2.3333 = \text{L. C.}$

2° 19½' = def. for sta.	542	I. P. = sta.	542 + 72
4° 49½' = " " "	+ 50	Tan. =	118.47
7° 19½' = " " "	543	B. C. = sta.	541 + 53.53
9° 49½' = " " "	+ 50	L. C. =	2.3333
11° 40' = " " "	543 +	E. C. = Sta.	543 + 86.86
	86.86		

$100 - 53.53 = 46.47 \times 3' (\text{def. for 1 ft. of } 10^\circ \text{ Cur.}) = 139.41' =$

2° 19½' = def. for sta. 542.

Def. for 50 ft. = 2° 30' for a 10° Curve.

Def. for 36.86 ft. = 1° 50½' for a 10° Curve.

