

Printed 16/6/2014.

Alan Clarke's Field Notebooks

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(Only pages with notes are numbered)

None of these
have been scanned.

get
[Signature]

- | | | |
|-----|------------|---|
| 1. | 1992- 1995 | (12-07-1992/19-10-1995) |
| 2. | 1995-1996 | (06-11-1995/ ²¹⁻¹¹⁻¹⁹⁹⁶ 20-02-1996)* |
| 3. | 1995-1996 | (08-11-1996/11-03-1996)* |
| 4. | 1996 | (12-04-1996/21-11-1996)* |
| 5. | 1996-1997 | (09-12-1996/06-08-1997) |
| 6. | 1997 | (13-08-1997/14-10-1997) |
| 7. | 1997-1998 | (20-10-97/23-10-1998) |
| 8. | 1998 | (04-05-1998/04-05-1998) |
| 9. | 1998-1999 | (08-09-1998/04-02-1999) |
| 10. | 1998-1999 | (30-09-1998/18-02-1999) |
| 11. | 1999 | (15-02-1999/08-06-1999) |
| 12. | 1999-2000 | (27-05-1999/24-02-2000) |
| 13. | 1999-2000 | (29-06-1999/20-01-2000) |
| 14. | 2000 | (29-03-2000/17-04-2000 and 27-09-2000) |
| 15. | 2000 | (26-04-2000/15-08-2000) |
| 16. | 2000-2001 | (01-05-2000/16-03-2001) |
| 17. | 2001-2002 | (30-10-2000-19-07-2001) |
| 18. | 2000-2001 | (06-11-2000/23-05-2001) |
| 19. | 2001 | (02-04-2001/08-11-2001) |
| 20. | 2001-2002 | (26-11-2001/11-04-2002) |
| 21. | 2002 | (07-05-2002/25-05-2002) |
| 22. | 2002 | (05-07-2002/25-11-2002) |

9/8/2014

23. 2002-2003 (11-11-2002/19-09-2003)
24. 2002-2004 (14-10-03/27-11-03) + (09-03-04/17-06-2004)
25. 2004 (03-08-2004/29-09-2004)
26. 2004-2006 (08-11-2004/19-11-2004) +
(13-03-2006/09-11-2006)
27. 2005-2006 (05-07-2005/10-02-06)
28. 2006-2007 (14-11-2006/07-11-2007)
29. 2008 (05-03-2008/09-11-2008)
30. 2009 (11-03-2009/04-08-2009)

*Alan to worked out the pages' order.

6/99 - 1/00

EDGEWATE - MFG
#00177

NB6510RB
9 317848 124609

①

29/6/99

TPS Calibration

Zppk standard = 2.33 ppk

open = 108.4%

11.05 am

upstream gauge 0.645

WONNERUP ESTUARY^W (AL SAN 07)

SITE 1 1110_{had}

depth 1.26 m

top 379 ppm 13.2

0.2 377 13.0

0.6 373 13.0

0.8 390 12.7

1.0 440 12.7

1.1 1.9 ppm 13.4

2

SITE 2 11:40

depth 1.17 m

salinity

top 262 ppm 13.7

0.2 262 13.6

0.4 262 13.6

0.6 262 13.5

0.8 257 13.1

1.0 258 12.9

1.1 265 12.9

SITE 3 11:55

depth 1.05 m

salinity top 340 ppm @ 13.6°

0.2 340 ppm 13.6

0.4 340 13.5

0.6 344 13.2

0.8 347 12.9

1.0 369 12.7

1.1 378 12.5

Bel

grave

Bel

grave

Bel

grave

3

SITE 4 12.14 pm

depth 1.12 m

salinity top 351 ppm 13.9

0.2 248 13.7

0.4 248 13.7

0.6 246 13.4

0.8 295 13.1

1.0 391 13.0

1.1 393 12.9

SITE 5 12.30

depth 1.13 m

salinity top 281 ppm 13.7

0.2 284 13.6

0.4 284 13.6

0.6 287 13.5

0.8 325 13.1

1.0 348 12.8

1.1 359 12.7

5

SITE 3 1415 hrs

Salinity top	480 ppm	13.7°C
0.2	480	13.6
0.4	480 ppm	13.5
0.6	487	13.3
0.8	484	13.3
1.0	482	13.3
1.2	487	13.4

depth 1.25 m

SITE 4 1430

Salinity top	550 ppm	15.5°C
0.2	555	15.4
0.4	670	15.3
0.6	724	13.9
0.8	734	13.6
bottom	736	13.5

depth 0.90

⑤

SITE 5 1445

Salinity top 748 ppm 14.1°
0.2 748 14.1
0.4 749 14.1
0.6 742 14.2
0.8 740 14.2
bottom 750 14.2
depth 0.93

SITE 6 1500

Salinity top 710 ppm 14.9
0.2 740 ppm 14.6
0.4 775 13.5
0.6 782 13.4
depth 0.67

5

SITE 7 1517 hrs
Salinity top 520 ppm 15.1°C
0.2 525 ppm 14.8
0.4 545 13.3
0.6 609 13.1
0.8 990 12.6
depth 0.85

SITE 8 1530
Salinity top 430 14.3
0.2 430 14.3
0.4 430 14.3
0.6 429 14.3
depth 0.61

8

SITE 9 1550 hrs

Salinity top 404 ppm 15.1°
0.2 404 15.1
0.4 403 15.1
0.6 409 14.5
0.8 438 14.0
depth 0.84

SITE 10 1600

Salinity top 425 ppm 14.5
0.2 425 14.5
0.4 427 14.5
0.6 430 14.4
0.8 442 14.4
depth 0.86

9

Worming Est

SITE 1 deadmote 30/6/99

velocity top 764 ppm 13.5°C

0.4 764 13.5

0.8 784

1.6m 802 13.3

SITE 2 opp. VESSIS - WORMING EST

0.7 bottom 4.14 ppk 14.1°C

0.6 4.14 14.1

0.4 3.81 14.1

0.2 3.72 14.1

TOP 3.66 14.1

10

SITK 3 1420 hrs

Joint elbow. top 4.37 14.1°C

bottom 4.43 14.2°C

depth. 0.93

SITK 4 1/2 1st panel.

TOP 4.74 14.0°C

0.6 4.89 14.0

0.0 5.02

1.0 m 5.23 13.9

1.7 m 7.58 13.9

SITE 5

5TH pump well north of house
 top 5.82 ppk 14.3°C
 0.4 5.85 14.4
 0.6 ~~6~~ 7.00 13.9
 0.8 7.42 14.1
 1.0 8.22 14.3
 bottom 8.20 14.3
 depth 1.17m

site 6 next beam at north
 of narrow creek near post
 Top 8.01 ppk 14.4°C
 0.4 8.15 14.4
 0.6 8.18 14.4
 0.8 8.30 14.0
 1.0 8.34
 1.2 8.78 13.9
 1.4 10.50 14.6

(12)

SITE 7 50m point of
end of meadow

Top	8.81 ppk	14.1 °C
0.4	8.90	14.1
0.6	8.95	14.0
0.8	9.18	14.1
1.0	9.39	14.2
1.2	9.55	14.1
1.4	10.25	

1.6 14.0 ≈

Bottom 1.8	27.6	15.6
	27.6	

(13)

check tents
check wind
buy wind plate

ring marine board

aluminum corner wood

David Mitchell

talk to grant about rigging
specimens in hole with
peel

dramall PAA x lots water

* 1.25ml jaro find this

(14)

Marshall equip
see inside tent cheap in morning bag

Ernest Sim about his gear

NIEL GRANT
0894826015

equipment needed

grips Jerry power markows
the daker straps
rat out.

~~raty line~~
~~2x4 pc~~
~~2x4 post~~

F bread board
F tea towel

tissues for probe
distilled water
Tape measure

(15)

1999 menu guide

oatmeal

milk UHT

Butter

Bread

cheese

peanut paste

cake

Biscuits

Bananas

apples?

onion

tomato

chicken

~~toffee~~ / beans

nuts

wordial

cucumber.

(16)

gruel in tub

potato x 1 paste

lent greenhead x 2

Spud onion soup x 2

Agnes's chicken x 2

chicken noodle soup x 1

coffee

beans x 3 gray x 1

tin tomatoes x 1

olive oil

veg sauce

lettuce x 3 (contamin)

rice

vegetable

sweet and sour

date pepper

tomato sauce

tin peas x 2

tin corn x 1

pantry dump

17

woodwork

Fridaye food
water in food
fuel in food.

18

Lake Wheatfield
33° 48' 45"
121° 55' 34"

Star Piche for
NOOBISUP

Home methods + cover

pullman
rug x 2
abana
sheet

~~tee~~ tailormis lum cream
towel

raincoat
cloths
hat

sambum cream
apples tin fruit

14/9/99

depth 1700m
Domybent 2000m
" " 0715h00

Mini 4.40m 15/9/99
depth 1.06m
gauge No.1 good work.

pH calibration

7.01 Standard = 7.01 at 6.9°C

4.01 " = 3.91 at 6.9

7.01 = 7.07 at 6.9°C

10.01 = 10.40 for 7.0°C

53.1

pH Lake Minn 8.60

20

Pööringus 15/9/98
11:00^{am}

pH 6.02 @ 11.0°C
depth at egg = 0.72 m

TORDIT - GURRUP

11:50

pH 8.36 @ 13.5°C
depth no. 2 egg 2.70.

Bygning Ingegn

13:00

depth 2.54 No. 1 egg
pH 8.50 @ 13.8°C

UNICUP 15/9/99

1500 hrs

pH 8.06 @ 13.7°C

depth of o.k. 1.94 m

YARNUP

1530 hrs

pH 7.32 @ 13.6°C

depth ~~1.21~~ 1.21 m of 1 o.k.

SIP and egg plate wrong should be pushed out after readings taken have been recorded.

WARRINUP 1630 hrs

pH 6.75 @ 13.5°C

depth 0.78 m No. 2 egg

(23)

KWORNICUP 15/9/99

1740

pH 9.54 @ 12.4°C

depth 0.34 m

read at 2m depth in centre of lake O.K.

Albany

16/9/99

0915 hrs

depth 0.68 m gg 2

pH calibration

Standard 7.01 = 7.09 @ 5.2°C

" 10.01 = 10.40 @ 5.5°C

and not adjust from 15/9/99

pH 6.95

(55)

(24)

Pleasant view 16/9/99

9.40 am

depth 0.93 m off 2
pH 6.70 @ 11.0°C

METTLER

1058 cm

depth 0.75 m on tree.
pH = 6.23 @ 11.8°C

YELLUP

depth 2.62 ^{over gauge} No. 2 gauge
3 m gauge needs replacing
with plastic plate.
pH 8.83

Moates 16/9/99

1500hs depth 4.61 m
pH 7.79 @ 14.9°C

POWELL

1647hs depth 0.73m
pH 7.76 @ 14.5°C

OWINGUP

1800hs depth 1.69m ¹⁵⁵ gsf
pH 6.02 @ 11.8°C

(26)

Boat Harbor 17/9/99

0800 hrs

depth ~~1.17~~ 1.17 m

pH calibration

Standard 7.01 = 7.10 @ 4.3°C OK

" 10.01 = 10.43 @ 4.3°C OK

pH 8.06 @ 11.0°C

Maringup

11.00 hrs

depth 6.56 m 99 0.1K

pH = 7.81 @ 14.2

1520

Wilson

depth 3.91 m 99 0.1K

pH 4.43 @ 18.7°C

(27)

JASPER 17/9/99

1600 hrs

depth 5.79 m

pH 7.36 @ 17.8

DAVIS

1800 hrs

depth 4.87 m @ 0.1 K

pH 8.78 @ 14.8°C

BROADWATER

1940 hrs

depth 6.1 m down from
west corner of 1st pier south
of pier and 1st line,
pH 9.29 @ 15.8°C

Parabyspring 19/9/99

10.00am depth 0.68 No.2 gg
pH calibration
Standard 7.01 = 7.05 @ 12.5°C
10.01 = 10.32 @ 12.8°C OK.
no calibration needed.
pH 7.94 @ 16.9°C

3 bagstaff

1100h

depth 0.55 m
pH 8.34 @ 16.4°C

No.2 gg lower bottle missing on gauge
of replaced with 1st blankers bottle
gg now good.

(29)

Martinez 19/9/99

1140 hrs

depth 0.54m ¹⁺² on jets

PH 8.66 @ 17.0°C

WEST ARTUR

1230 hrs

depth 0.22m No. 1 egg (o.k.)

PH. 10.27 @ 19.5°C

TOWERING

1320 hrs

depth 3.24m on jets o.k.
PH 8.93 @ 18.6°C

30

BoxUP 19/9/99

1470

depth 0.20 m gg o.k.

pH 7.66 @ 21.3°C

late Swardship top of

gauge = 18m

depth 14TH/10/99 17.00 AMD

19/10/99 (31)

Five light winds top 28°C

6.00 on leave up on line

Start 8.30 near traffic bridge
check heavy layers in dry
north shore valley

Bondalon Island 68 young
penguins 5 adults!

① 13 burrows just south
of Yangebup spread along
the shore

② 2 adults + 7 eggs 53

③ 127 + 2 + 6 + 1 = 136
eggs 20 24 47

797

(32)

30 swans at Point
west of Anson Bay

Boggy Bay ~~1st~~ ^{2nd}

~~2nd~~

210 + 4 cygnets

fine 24°C SLE WINDS 20/10/99 (33)

Island Point

Flamingo colony

Start 6:50am

begin survey 9:45am

Openway near 1st house

grey teal 6 mist flared rumpie
black duck 3

LPC 2

erected tower 1+2 see back

1st fence greenbank 3180. ^{last group seen}
_{into nest in bay}

small water pro. RNS 10

rain gull 23

2nd bay

rain gull 10

greenbank 10

boat ramp

Wed Aug 2

pelican - 9

LPC 3

WPH 1

Bay 3

significant Molucca
death

pelican 1

Wapping tern 2

grey teal 6

shrike 1

LBC 3

LPC 1+2

pid C. 2

Silver Gull 10

crashed tern 3 blood legs
eyebrow bill

Great terns

BAY 3 cont.

north of lake ramp.

great Comman 1

LPL 1

Pink L. 1

Bay 4 Section 4

teal 1 dead two

black teal 1 no cover

jitts with lean to.

north reg. degraded

been come for ducks gone.

5 grey teal

Pink K. 9 } jitts

LPL 2+1

teal 2

MFH 3

Bay 5

dark 1

violet gull 4

crested tern 1

grey teal 3 + 4

black duck 3 + 2 + 2

Bay 6

shearwater x 2 + stay 2 chick

note of ramp was recorded

Mal. J. dead

dark x 2

pink C. 1

Bay 6 with new big jolly storm.

Black duck 3

LPC 1 violet gull 1

cont -

black chub 3

WFH 1

data 1

LPC 1+4

cont long before out.

black chub 1

ramp phoson 6

WFH 2

phoson yield 20

LPC 3+1

data 2+1

phos 2.2

Dawsonville cont

38

Pied Oyster catcher 1
pewee 1
dove 2+1
little egret 1
WFH 1
green egret 1

39

Marina

~~RPC~~

LPC 2+1+1

Pileup Gull 50+5

crested tern. 14+4

phalarope

black duck 3+9

shrike 3

pelican 11

coyote 2

red egret 1

Common sandpiper 1

RHS 1000 + 500

North J ave

RNS 40+12

dove 3

LPL 3+2+3 RPC 2+2 points

1380ha

Start 6:45 am Curranline (40)

8:00 am depth 8/11/99
0.56 g 2.83
g. good.

BDH Buffer
Calibration

Buffer 7.00 = 7.11 12.6°C

capillary - 4 mV

Buffer 10.00 = 10.24 12.7°C

slope 58.1 mV AS - 4 mV

→ THOMSON'S HARD
pH = 9.86 @ 16.4°C

GIBB RD

8.40 24.38

pH. 6.60 AT 16.4°C

Forestlake

0930 hrs

depth 22-98m

pH 8.94 18.6°C

WATER gauge.

1130 hrs Delanderm

head

capsicum

chick

COKE

gg lance / depth 0.49

pH 7.00 @ 21.7°C

Georgina / depth

type marine

type

sharp

200mm from edge WSE rough tall

1/2 dead tree one rock head

3m or tape on small shrub

water 10m down from bottom

of tape on trunk. pH 6.93

@ 26.8

43

Beaverley 8/11/97

1450 hrs

depth 9.80
gates being significantly

pH 9.37 @ 25.1°C

Means

estimated depth 0.5 m
bubble on gauge to mark true
in water then measured down
need to install shallow gauge

Yeckering

0898887013

pH 7.74 @ 27.3°C

8.70

44

5:30 pm WHITE WATER 8/14/99
depth 0.04 @ 2
pH 7.35 @ 25.2°C

6:00 pm BROWN

depth 1.25 @ 1
pH 10.04 @ 22.6°C

6:30 pm Yearling

depth 1.77
pH 9.83 @ 21.4°C

Grind 7:30 pm

Date 7:15 am

(46)

9/11/99 Paper Bark (Lorazepam)

8.50m depth 0.78 g/g 2

old gap on the right or north
side of dam is or was

unrotated. a new gauge was
surveyed in in 5/98

This is accurate to the old crown
datum.

paint peeling off gap

Calibration

buffer 2.00 = 6.98

creeping -3mV

57.5 mV buffer 10.00 = 9.97

↓

-3mV

pH 7.76 @ 17.6°C

9/11/99

Ardisia

10:36 am

depth 235 mm below

dropper

pH 3.45 @ 21.3°C

12:30 Lake Compier

depth 1.47 measured down

3cm from top of datum

pH 4.26 @ 24.7°C

4:40 Macroalgae

depth 1.06 m

groups getting dirty

pH 9.55 @ 29.2°C algal excretions

NOTE lots of macroalgae

48

4 grebe eggs, rest were etc
4 grebe eggs very stained
8 eggs white black open
small 55 mm x 35 mm
washing up bucket
Tilroop

numerous nests
pink ear young
puro with eggs
4 span nests early
visible
young ducks everywhere
nests on ground only
See cm's of water.

49

MORSEY'S 9/11/90
depth 16.5 cm down
from ~~about~~ top
on dead tree
West of dam
pH 7.59 @ 23.6°C

Downin 7.30

WALXORMARKING 10/11/99

Sound notch in tree water was
300 mm below notch.
depth 1.21 m
pH 7.00 = 6.97 -1 mV
10.00 = 9.98 -57.3 mV -1 mV
pH 9.64 @ 21.7°C

10:10am NINAN 10/11/99

depth 24cm above
2m mark gg!

measured with off set tape
from top of gg to water surface.
∴ depth = 2.24m

PH 8.43 @ 21.1°C

12:00 HINDS gg!

water is 22.0cm below cut
in tree pH 8.73 @ 22.9°C
depth 4.23

gauge ~~then~~ pushed over. I
pushed it back to vertical and
measured 23cm from top of plate
4:00m to top of water

Blue Gum 10/11/98

depth saw cut in casuarina
left side of tree 10m from
entrance of lake cut at
water depth

PH 8.12 @ 26.7°C

gg | egane 4.45 pm

depth 2.45

PH 9.27 @ 25.5°C

1820 hrs YARRA YARRA

depth 0.87 gg | good

PH 8.16 @ 25.9°C

finish 7.30 pm

START 7:00am

8:30am logue

depth

dist. from bottom of reel tape
to water = 780 mm

gauge found completely
submerged - measured from
water to top of 3m [3] sign
dist. = 160 mm

pH

buffer 7:00 = 6.97 0 mV
" 10:00 = 9.98 -57.0 mV 0 mV
pH = 7.70 @ 23.7°C

G.

12:00

GURRAGS

11/11/99

53

depth could not find
anything gauge or station
saw mark put in
tree at water height left
side of track.

PH 8.72 @ 25.9°

1370hp CRACKERS

dist. from bottom of red tape
to water was 500 mm
PH 7.44 @ 25.0°

3:00pm Wamamal 11/10/99
depth 1.37m 99.1
pH 10.37 @ 26.12

3:45 Bamber
depth 2.44 99 good
pH 9.61 @ 25.32

4:20 Chandola
depth 0.76m
pH 8.82 @ 29.12

55

Sondalimp 12/11/99

9.40

depth 16.91

pH Calibration

buffer 7.00 = 7.04 - 2mV

" 10.00 = 10.01 - 57.5mV - 2mV

pH = 9.60 22.1°C

10.20 Sondalimp

depth 44.69 (w/wave)

old Colson gauge found depth 0.94

pH 3.83 @ 21.4°C

chicken + 1 spray bottle. nuts
 (steak stew x 1) jelly beans
 sooting broccoli

LUNCH
 dinner
 breakfast } TUE
 lunch }
 dinner }

potatoes
 maple
 carrots
 onion

700
 600 kms
 380
 220

cream rice
 butter
 milk
 Tax spray? beans

BEER
 TARP
 coffee
 biscuits
 apples
 almonds
 chips

(58)

14/11/99

depart urumbone 2.00 pm
pick up food
pick up salinity metre
leave Woodah Rd on 2.30

travel to Satter Cross
385 km very low on fuel
put 50 litres in
arrive 6.30 pm
stayed at SC motel
finish 7.00 pm

start 7.00 am, 15/11/99
Kalyanali 9.40 am
shopping - re fueling
talk with I En Keally.

(59)

15/11/99

start of east run
11.37 0.0 km ~~to~~ Rd.
22.9 from access Rd
2.0 km above from 1997 run to
all destinations

start with grid 281.2
turn back to go opp. way
along fence.

282.0 turn South.
289.8 road to west for
outfall lake?
291.70 turn west off main Rd
to camp site lake 4.00 pm
finish 8.30

TPS FL90

16/11/99

Calibration

36% standard = 26.6%

open = 79.1%

new 36% = 36%

late sunny 7.00am

launch site

HHG 10+8+9+5+4

SUN 20(53) WOT 3+2+2 rest+1+2+4

BWS 4+4+12-15

Hardhead 3+2+2

gray teal 2+14+60

pink ear duck 2+8

over

black duck 2

misidentifed ducks some white or brown

silver gull x 2 of neck.

north side of camp enlargement

3 juv. 1 x red breasted Nuthatch BP 100%

juv. BWS x 3

op small plow x 3 white underwing

brown patch head

gray back black sides thin

black forehead

juv x 2 + 6 eggs 1-2 embryos

HHG

BWS 20

WOT 20

use on 2 x nests

phalacrocorax

many were displaying

distracting display

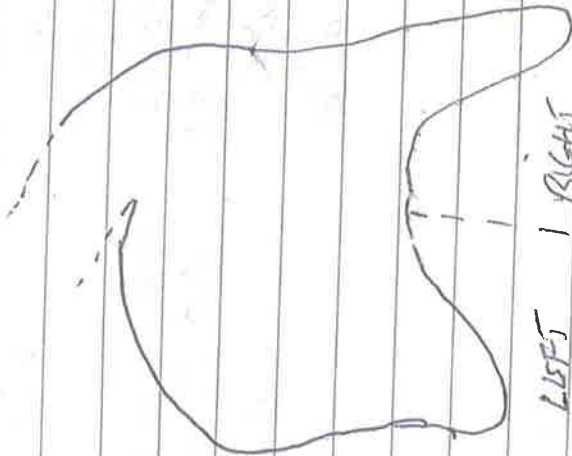
on our approach.

Note vegetation maintenance appears to begin 1m above current water level. is following the 1m higher water

63

Camp embayment

→



LEFT
SIDE

RIGHT
SIDE

NORTH
SIDE

HD

64

16/10/99

left hand side of vehicle
camp embayment

Coat 1 with 3 x juv. drops abt 51

BWS 6 + 10 + 10

→ 6 + 1 on nest + 20_{inc.} 2 x 53 + 2 x 51

hardhead d. x 3 + 12 + 2 + 6

pink ears x 2 + 1 + 2 + 2 with 6 x 51

6 + 4 HMG 9 2 x greenhead d. abt 5-2

remaining away from HMG

mud dch. 1

greenhead. x 2

Red breasted nuthatch.

2 x recent wood nests.

9:30 am Thunderstorm

heavy rain lightning

(65)

PAM 98381549

ANDY CHAPMAN
98381149

Ford
54c/km

(66)

heavy rain continued 16/11/99
new observations very poor
2.30 school after weather
info. from CALM KAL. That
weather was not going to
clear. The ~~return~~ decision to
return to Kal was made
left lake at 3.30 pm
Track very wet and dangerous
CALM Kal. depart at 8.00 pm.

note book.

mobile phone

telescope tripod

eyepieces

running sheet

bird book.

small meters wrap

around tripod

clothes

things

? bedding

*** 7PS unit

with standard

leave picture

ring Margaret

toni?

CYBERSCAN 100

conductivity meter.

Harver orchid collector.

370 cyclic

Postbox planning

River planning

Spent money.

(69)

10:15 am Waders only 23/11/89

more flooded gates

F(N) 1/2

common sandpiper? dark sides

prominent dark eye with \downarrow wing up breast
white under wing and eyebrow

normal white patch on shoulder

flight erratic flutter stop flutter stop
wing beat

on jets of loose north side of
river!

(1 BWS apparently dark downy marks
nothing in toe water bodies either
side / 12:08 am

investigated flooded area in front
of pond - no waders

More North 12:18 0:84

(A)

~~br openstank 3~~
~~asp 3~~
BWS 100
AVOCST 18

golden

4 grey plaver + 5 + 11

(40) openstank 38

100 + 200

chrysostom nambyjara

red necked sturt

REP 2 + 2

200 BWS 100

grey plaver 3

(81)

part of rd to point at
2.13 - narrow neck

A { reverse lay greenshank 1
BWS 150

green lay flooded reverse
30 BWS
greenshank.

B { flooded area in front of
house with two water
tanks
BWS 20

3.00pm { 81 21/21/21 river
~~BWS~~ River
B { ~~August 30~~
BWS 5

large cut 0.77 @ 3.20pm

(72)

drop tail size
40 meters flying from
Malheur creek across sample
towards houses.

(73)

FN1

house jeth 3x compass reading
return run

4:00 pm finish

6:00 pm

#1 24/11/99

0.905 hrs Mornings gates

0.1m ~~1.2m~~ 3.00 ppk 22.01°

0.2m "

3.02

3.04

3.05

3.06

3.07 ppk

1.35m

#2

0.1 2.91 ppk 21.4°

0.2 "

0.4 2.97

9.26 hrs

1.20m 2.95 ppk 21.3°

(74)

24/11/99 (75)

9:50 am #3
depth 1.07 m

Wammurup est.

21.72

(5)

end of Wammurup est
5 BWS

appurits/north side
1 x greenbank

55 x BWS

(60) BWS

0.1 m 2.80 pp/K "
0.2 " " "
0.4 2.79 " "

bottom 1.07 m 2.78 pp/K "

#4 10.15 am

0.1 m 2.55 pp/K 20.4

-
-
-
-

bottom 0.96 m 2.54 pp/K 22.4

(76)

WONNIE UP WEST.

(77)

11.33am

#5

24/11/99

0.1m 2.36 ppk

-

-

-

0.8m 2.36 ppk 22.9°C

(5)

5 greenbank on northern point of eastern bay.

14 greenbank few east.

Horse water tank Bay 2

greenbank 4

about 20

2+ greenbank just near on north side of 1+2 bays. →

greenbank 5-14+4+2+1

26

2x Green Tailed Tattler
3x GRP

Monowrap More data logg-dept
12.20 pm 0.90

Janish 12.35

Start between Womung and Vase gates
1 common sandpiper on pool.

Start 1.35

up to Vase gates

2x north side of flooded rampine
small fast flying on off wing beats
1 white wing bar white rump
common sandpiper tail bar.

12.20 - 1.35

band box

Wimberly x1

(60) REP x2 + 20 + 35 + 3

Prod system catch 1

RMS 15 + 16 + 2 (23)

curlew sandpaper 1

great sandpaper 1

Common Sandpaper x3

Winnipeg Gate 3:15 am

#1 26.3° 3:06 ~~am~~

DEAD WATER 3:07

3:10

3:12

depth 1.90 m 3:22 22.7°c

24/11/99

DEAD WATER

#2 0.1m 3.04 ppK 25.8°C
 0.2 3.04
 0.4 3.04 25.5°C
 0.6 3.02 24.9°C

fraction 0.9 0.8 3.02

~~common bandage~~ #3

0.1m 4.66 ppK
 0.2 4.64
 0.4 4.56
 0.6 4.52
 0.8 4.55 24.2°C
 1.0 4.58
 1.2 4.58 23.8°C
 1.4 m 4.61 23.1°C

(81)

24/11/99

#4 DEAD WATER

0.1m 5.03 ppK 21.6°C

0.2 5.03

0.4 5.00

0.6 5.04

0.8 5.03

bottom 1.6m 5.00 22.9°C

#5

0.1m 5.74 ppK 27.5°C

0.2 5.74

0.8 5.68

bottom 1.2m 5.73 24.9°C

(82)

24/11/99

#6 DEAD WATER

0.1m 6.84 27.6°C

0.2

0.4

0.6

0.8

1.0

Bottom 1.73m 6.89 ppK 23.8°C

#7 0.1m 6.88 ppK 26.3°C

0.4 6.85

0.8 6.84

Bottom 1.6m 6.84 ppK 23.1°C

Spinal 3.39 ppm.

83

Subwater across road from

I
Primi putput

1+3 x RCP

14 x Golden plum.

GE nothing

GW 30 x BWS

25/11/99

Wave cycles

8.34 am

0.1m

#1 ~~2.27~~ 2.27ppK 23.5°C

u

v

w

u

v

depth 1.43m 2.24ppK 23.3°C

8.5m #2

0.1m 2.27ppK 22.8

-

-

#5 1.7m

depth 0.85m 2.31ppK 22.6°C

85

25/1/99

9r05 #3 0.1m 2.14 pps 23.12

-

-

-

Bottom 0.1m 1-10m 2.13 pps 23.12

#4 0.1m 2.21 23.5

9.15am

Bottom 0.7m 2.21 pps

@ 23.62

#5 1.30am 0.1m 2.66 pps

@ 23.22

-

-

Bottom 0.8m 2.70 pps

23.22

25/11/99 (86)

#6 9:45 am

0.1m 2.48 ppm
- @ 23.8

bottom 0.55m 2.48 ppm
@ 23.7c

#7 9:55 am

0.1m 1.89 ppm 24.0c

bottom 0.63m 1.89 ppm 23.8c

#8 10:10 am

0.1m 1.723 ppm @ 24.1c

bottom 0.50m 1.72 ppm
@ 24.0c

25/11/19

#9 10.25 am

0.1m 804 ppm

@ 24.3°C

0.2m 808

0.4m 843 ppm

bottom 0.70m ~~8~~

~ 940 ppm

@ 23.8°C

#10 10.45 am

0.1m 307 ppm 25.5°C

-

-

-

bottom 0.70m 306 ppm

23.3°C

Swirl 10.50 am

(88)

BOON NOV 1999

(89)

Seven lab data loggers
@ 1-10 pm 0-72 m

Lab Bandages,

30/11/99

Logger 7.00 = 6.96 0mV

10.00 = 9.95 -56.2 0mV

(Pumps) FL90

36% O₂ 2% O₂ = 2.43%

Calibration O.K. 113.8%

(90)

Start

0-0

287 Km water grid

middle of water lake 1997

99C-01 31° 06.156

124° 11.550

depth 15.9m

7.75 ppt

1997 Camp 1997 WPT 6

99C-02 31 06.533

124 23.507

camp num GPS 31° 06.636

99C-03 124° 23.495

99C-04 (91)

middle of lake
Camp Omdengmat

31° 07.428 S

124 21 918 E

4.85 ppt

depth 11.4

31° 11.086

124 22.076

99C-05 depth 15.9

5 ppt

700

1270351

6522004

3:30 pm 29/11/99

Lake Bowdoin - NESTS

Entrance to LAKE FROM CAMP ENTRANCE IHH

STAN SIDE (cont) 2 x B x 6 (S1) IHH IHH

SOUTH 1 x B x 1 B x 1 (S1) + 1 IHH IHH

2 x (S1) + 1 + 2 (BR x 1) (BR x 4) III

+ 3

total x 10 + 10 + 6 + 3 IHH IHH

(NEST x 5) + 2 (NEST x 5) + 2 + 3 II

+ 2 (BR 3) SS

PINKS 2 + 1 (BR 3).

WHISTLING KITE

GREENSHANK.

ALST WITH DOWN IN HOLLOW 3 x TEAL EGGS?

WH. FACE HERON x 1

AUSTR. RAVEN x 6

T/H GREASE 2+1+2

MAGPIE LARK

WILLY WAGTAIL

NATIVE HEN

CRESTED PIGEON

BLACK WING STILTS 1+8

BLACK DUCK 2+2+1

BLUE BILL DUCK 2

?

NORTH SIDE

GREASE 150+30+60+20

TEAL 6+4+2+3+2+6

B/W STILTS 6+2+5+3

TEAL +2+2+5+6+9

GOIT 2

A/EAR 2+2+2

SHEAL 2

GREENSHANK 3

NEXT 2005
Nest traps

shallow camp embayments

pink ear 2x B6 (S2)

2x B3 (S2)

4x red breasted Plover (immature)

Teal 20

4x Black Duck

8x wot

20x BWS

waters edge (end of road, camp)

99C-06 31° 07' 080

127° 22' 808

1998

99C-07 WPT 6 Ponton Creek

99C-08 " 5 Camp 19

(95)

SOUTH SIDE?
DAVID
CAMP EMBAYMENT (NORTH SIDE)

COOT 4x2

HHH NO1
||

PINK BEARD 2 + 20+

TEAL 12 + 5 + 20+

12E 1 DOWN
TEGGS
15E
14E IIII
1E

GREENSHANK 2

mud duck O+ x 1 Bf 1

(96)

redwings 21.5%

2nd cutoff Lake

HARDHEAD 12.

part of old embayment
1997
BWS nests for year or ground
WFH x 1

Thompson
nests + Down supports 53 x 5 x 2 adults
nests. This year x 105
swims
BWS 10 + 20 + 100

yellow-crowned
shelduck + 30 juveniles
ridges + 2 helix teal x 40 + 50
main barn / HHG (30) Down + 40
Pink ear 4

silver gull x 3

open swamp not many nests
more
swamp x 8

* no locust banded stilt x 2 + 1 + 50

month ended 2 cutoff lake 10-15 embay.
GPS 31 08.434

990-09 124 21.522

RCP x 2
Red head duck x 1

CAMP EMBAYN NTH → PONTON CK

COOT 5+3+2+3+1+2+12 LHT 11

+4+6+4+2+3+6+4+11 (JUV)

+6+10+12

TEAL 2+6+3+4+15+6+5+7

+4+2+12+10+6+4+8+6

BIAKADUCK - 2+3+2+2+6

+2+4+1+2+4+2+12+4

GREENSHANK 2+4

H/H GREBE 5+3+3+2+4+4

+12+6+8+6

HARDHEAD 4+6+4+4+2+3+6

PINK GAR - 6+2+4+3+2+2+6+4

SWAN - 1 (JUV) + 2 (JUV) + 1 + 2 + 4 + 2

B/W STILTS - 2+2+2+4+2+3+16+10

SHELL DUCK - 2+2+4+2

N' HAN - 3

W/F HERON - 2+2+1+3+15

30+320+12+10+6+6

red breasted nuthatch x 2

Ponton Creek 3m wide

31 07.636

99C-10

124 18.5+3

* 500m down creek 6.10%⁵⁰

(LARGE N'S OF LITTLE CROWS)

RED KNEE DOTTEREL X 2

PINK EAR NEST, DOWN + 6 EGGS

WHISTLING KITE

WEST SIDE OF ANTON CK EXIT

S 31° 08.307

E 12A 19.702

99C-11

SHALLOW AREA PLENTY OF NESTS

1 TREE 3 COOT NESTS

MANY NESTS TO WEST, MANY HANG EGGS

COOT - 6 + 5 + 4 + 6 + 10 + 20 (3 juvs)
+ 10 + 18 + 12 + 18 + 6 + 8 + 10 + 60
+ 20 + 20 + 420 + 10 + 20.

TRAIL - 12 + 12 (8cs) + 14 + 6 + 20 + 20.
30 + 20 + 25 + 12 + 20 + 26 + 20
+ 50 + 20 + 15.

BLACK WING STILTS - 8

PELICAN - 3.

0

7+ HERON NESTS (2+3 EGGS) (BLUE)

2X WHISTLING KITE (NESTING) ✓

WHP HERON - 35 + 27 + 4 + 3
(12 non-nest - 15 eggs)

SWAN - (NEST EGGS) + 3. (6 SWAN NESTS (3 EGGS)) + 28

BL. WING STILTS - 25 + 40 + 50 + 20 + 140
+ 30 + 30 + 100 + 60 + 30 + 60

PINK EARS - 2 + 2 + 6 + 2 + 212 + 1 + 8.
+ 6.

SWANS - 4 (2 nests (5 eggs)) + 4 + 4 + 2 + 3 (4 juvs) + 4 + 3

SHEIL - 2 + 2 + 3 + 6 + 9 + 4 + 8 + 30
+ 16 + 12.

HARD HEAD - 3 + 2 + 200 (HEAD) + 20 + 10 + 8.

78 + 30 + 60 + 60 + 40 + 20 + 40.

BLACK DUCK - (JUV) + 2 + 4 + 2 + 6 + 2

SILVER GULL - 2 + 1 + 2 + 1 + 2 + 2

(101)

SHARPTAILS? - 30 + 12 + 14.

REDNECK ANOGET - 2

MIXED WINGS - 50 ~~eggs~~ ANOT 60 SHARPTAILS

20 RED CAP + 12.

3 RED KNEE BOTTLED (1 JUV)

GREENSHANK - 1 + 2 + 2 + 8 + 10 + 4.

H/HEAD - 4 + 6 + 2 + 6 + 2 + 30 + 6.

+ 70

* FALSE ANTON TAIL EN BAYM. TO WEST

SHEPHERD LOTS OF W/POUL

MUSK DUCK - 1 + 1

BANDED STILTS - 20

LITTLE PIER COAM - 7

LITTLE BLACK COAM - 1 + 1

CRISP (E - 1 (JUV) + 2

(102)

WPT 9 → 754

31 11. 99C → 12

S/W ISLAND

WHISPERED TEAN - 22 124 21 518

BLACK FRONTED ROVER - 1 + 4 to 15. 2. 27 = 15K

SHARPTAILED - 100

BWS 20 + 10 Red head. Sharpsh. 2

puan nest 1 x 5 eggs + 1 x 6 eggs + 1 x 7 eggs

RCP 48 + 10 1 x 1 egg. 1 x 6 eggs 1 x 5 eggs

greenbank x 1 1 x 5 eggs 4 x 2000 1 x 6 eggs

1 x 1 egg 6 x no egg

GPS 31° 12' 030 - SALINITY.

124 21 390 Top 5.7 / 1000 ppt

99C → 13 4m 6.67 ppt

500m SE of Island.

SHAL - 2

11

H/HEAD - 40

Thunderstorm cleared up off the lake.
Caterpillars. Haddock's tail etc.

ENT FROM CAMP EMBAYMENT

S 30 06 968 TOP 5-6 PPK.

E 124 22 189 4M 5-7 PPK

~ 6M. DEEP

Should be 31° 06' 168

Camp Road end

PLD 8.54 24.3°C

99.5

1/12/19 05

pick up camp 8.15km Benton
main lake. Travel north towards

trans line 8.20 0.0km at west

road. 3.00km track to south

part old embayment now cut off

lake (minor) 2.0km to lake

Druggie still use old camp for

music again because of better

access to lake for vehicle to

launch boat. ~~B~~

back on main track 0.0km → west

4.8km track headed NW

we continued along main trail.

6.2km scatters edge on Ponton creek

new entrance to main lake.

0.0km from trail heading NW from

previous trail leading to Ponton creek

0.2km track cuts broad off to creek.

105

2ND Tract 0.4km

no birds
recounted
179m

continued along track

waters edge 100m from road

106

running track
6.4km → 16.8 out to line

CAT-OFF TAKE DATE 10-15am

SWAN - 50 + 15 (42W si) + 6 (B4) 2 (B1)

+ 1A (B4) (B6) + 4 (B4) 4 (B5) (B5) + 16

+ (B6) + 4 + 6 + 4 + 10 (B7)

TEAL - 8 + 80 + 60 + 80 + 30 + 12 + 30

+ 30 + 40 + 60

SHELL - 6 + 12 + 6 + 12 + 12

SHANK - 1

(NESTS
111)

CROT - 4 + 12 + 6 + 10 + 10 +

H/HEAD - 16 + 12 + 18

W/F HBEON - 15 + 1 + 30

BLACK DUCK - 2 + 5 + 4 + 3

H/W GEESE - 2 + 1 + 2 + 12 + 6 + 12 + 6 + 2

D/W ATT - 20 + 20 + 20

PINK BAR - 2 + 2 + 20

FRECKLE - 1 + 1 + 3 + 2 + 1 + 6 + 20 + 60 +

+ 5 + 16 + 50 + 2 + 60

295 (300)

+ 100

southern edge

connects long thin island with embayment to the south just connected to the mainland

pharynx-tailed sandpiper x 10 + 20 + 20

RCP 80

RNS x 2 + 1

Red breasted nuthatch x 2 (50 x 2) + 2 + 1

seven nests (x - , 1 x eggs, 1 x eggs, 1 x 5 eggs

1 x 7 eggs, 1 x 1, 1 x 7, 1 x 1, 1 x 5, 1 x 4, 1 x 6, 2 x -

1 x 5, 1 x 6, 1 x 1, 1 x 6, 1 x 2, 1 x 8, 1 x 4, 1 x -, 1 x 6

1 x 3, 1 x 1, 1 x 4, 1 x 2, 1 x 6, 1 x 2, 1 x 7, 1 x 1, 2 x 5

1 x 7, 1 x 2, 4 with no eggs

? large yellow legs from white

patches on either side of tail van

like a chicken long legs, thin middle

wing bar, white belly, dark back

dark wing tips thin short bill top

BNZ 20

FROM ISLAND

BLACK SWAN ~~30~~ + 12

FREELED DUCK - 140 + 80

COOT - 6 + 2 + 10

SHREDDER - 20

TEAL - 60

WEST

Numerous Redcap on flat @ ~~East~~ End

2100

99c-16
with

east end of lake salinity sample.

WPT 15 31° 06' 961

124° 16' 133 12.0 ppk.

middle of lake 12.5 ppk bottom
↓ opposite one tree is about 4m

99c-17 Top 12.2 ppk.

east end of lake

WPT 16 31° 05' 300

99c-18 124° 17' 266

finish survey 12:30

arrive Hospitality inn 1800 hrs.

Distance between 15 and 16 = 3.56 Km

add 100 40m to west shore and 50m to

east shore another dist East West
= 3.65 Km

20/1/00

depart Lismore 5.45 am

pick up Ray Broad 6.25 am

drive for Mangrove

Mangrove 10.15 am

drive for Lake Muir

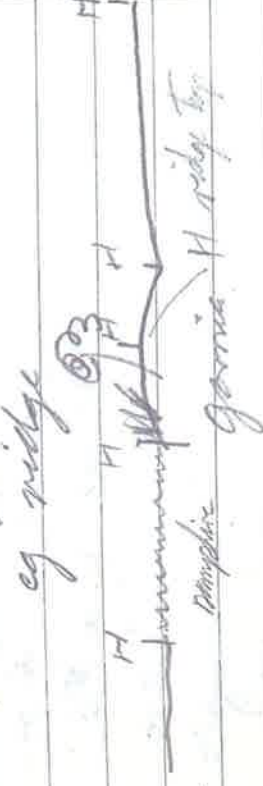
at 10.45 am



20/1/00

Lake Muir Sept 1983

South of
 transect from bottom of lake
 north edge to top of transect
 dist. and height (relative)
 to each veg. boundary and
 topographic change



50m average
 topographic profile in transect at 80-90°
 to ridge top inflex of Ray Broad
 depression.

2ND Transit on Palagup RD
 @ 1.1 km from Main Hwy
 West side of road.
 28 fences in from RD
 is beginning of transit
 take to north level.
 4 v large trunks of gate.
 one Bypass 5 m in from road
 to show general site.

Bypass 1ST Transit
 across from Poison bait
 sign Δ 1 km from gate
 near depth gauge.
 drayage placed 5 m west
 of old transit (dead) log.
 Transit line 340° to
 25 m in to Borena antilecta
 no other veg tops present.
 drayage is 37 paces at 333°
 from Δ bait sign.

(115)

Byway 2nd transect

335° → water for line of transect

11 pass from road over
then has fallen over
drainage is in from Y
junction of new and old
trunk

drainage hit well into the
ground. 200m north
of gate at depth gauge

15 transect is a fourth
400m from 2nd transect

(116)

20/1/00

3rd transect

depth 2.63m

transect to be located to

run along road to point

until *Agave* *laurea*

stands take transect up to

ridge include *Bombac*

latensis *Mataloa* *Agave*

laurea (very important species

corner of lake transect near

point of main body of water.

20/1/00

Poorcamp

Depth 0.46

dragger at top of transect
is west of cor part

transect line is 290° to

SIP in (TO 13E BONE) Lagoon

30m into main wetland.

230° from old Mani Tree

near old palm datum

at 50m to dragger

Unicep 20/1/00

Depth 2.0m

dragger is 60 paces along
trawl 40° from 3x cornered
droms.

transect line is at 120° from

dragger down into Beacon.

2nd transect starts 22 paces

at 95° to dragger from Black

stump & see light

which is 37 paces from road

stump is NNW from dragger

on edge of road.

dragger is 0.46 from

Unicep Pt.

119

Yarnup 20/1/89
depth 0.84

transsect beam 300° from
bottom to top
other run through
another edge of 130m
veg plot
top to low chopper
300° up to chopper on
road 5m north on
opposite side of
road from Palm den
Yarnup 130m K&RR

120

Yarnup 20/1/89
transsect starts (100) 9m
at 21° from very large dead
more tree

tree is 235° and 60m
from ~~start~~ road
chopper is 5m in from road
at 235° from dead tree,
chopper at road. Edge is 60m
towards Yarnup from sign
from sign

- finish pt 1750hrs.
at lake.

Arrive at Bridgetown
Guernseyline 11.45pm.
Good R. 20/1/89.00

(121)

RIMY FROEND

60 Harris RD BICTON

93392804

phil K.

97568330

THUR 20/1/00 6:30am