

Printed 16/6/2014.

## Alan Clarke's Field Notebooks

(INDEX)

(Only pages with notes are numbered)

None of these  
have been scanned.

get

- |     |           |   |
|-----|-----------|---|
| 1.  | 1992-1995 | (12-07-1992/19-10-1995)                                     |
| 2.  | 1995-1996 | (06-11-1995/ <sup>21-11-1996</sup> <del>20-02-1996</del> )* |
| 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

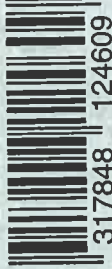
23. 2002-2003 (11-11-2002/19-09-2003)
24. 2002-2004 (14-10-03/27-11-03) + (09-03-04/17-06-2004)
25. 2004 (03-08-2004/29-09-2004)
26. 2004-2006 (08-11-2004/19-11-2004) +  
(13-03-2006/09-11-2006)
27. 2005-2006 (05-07-2005/10-02-06)
28. 2006-2007 (14-11-2006/07-11-2007)
29. 2008 (05-03-2008/09-11-2008)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

\*Alan to worked out the pages' order.

15/2/99 — 18/6/99

EDGEWELL LEWIS  
30611 202

NB6510RB



9 317848 124609

①

GRANT,

0418945268

HM 93877276

SIM 0419954541

Burton Office 97521677

ROY GRIFFITHS

92429057

PHIL KELLNER 97568330

PETER " 97554749

6:30 pm Wednesday

Belg

grave

Belg

grave

Belg

grave

(2)

15/2/99

Start at 10:00 am

Time 15:45 10-15 30°C

Sea 10/10

in

26 ovens at Green Lagoon.

13 (including 2 juv.) along Nature

reserve shore 400m south of little

island opposite Boundary Island

142 Birch point Robert Bay.

+ 1 young legs

1 near waterbird nesting facility  
south of boundary island.

TOTAL 185

Finish at Boundary 1:30 pm

(3)

Page 5. 0162742779

address white 94924492

↓  
9

0417933128

Belg

grave

Belg

grave

Belg

grave

(4)

17/2/99

10.00 am - Island point

1 + 3 pelicans

3 great egret

10 + 6 + 5 LPC (21)

more duck 4 (2<sup>nd</sup> bay)

(8) 3 + 5 pelicans

11 silver gull

10 shelduck

1 Darter

108

11 (3<sup>rd</sup> Bay)

pelican 3

Pied C 1 + 5 + 1 (7)

LPC 6 + 3 + 3 (12)

great egret 1

black Duck 2

silver gull 14

black from eye

back, neck.

Common

→ 7 tern black curved bill, black legs

medium size doves & starling

(5)

Aug 4

Porter 2

grave 2+1+1

LPC 1+4+8 (13)

Prod C. 1

rubber 2+6

Black 1+13+14 (28)

WFH 3

(63)

lunch 11.45 to Park.

0418945268 Point Morfitt

begin 12.45

POINT MORFITT

LPC 5+6 (11)

grave 2

rubber 30

Prod C. 2

45

Belg

grave

Belg

grave

Bel

grave

6

Black duck 4 + 4 + 2 (10)

LPC 12 + 15 + 20 + 2 + 15 (49)

Pied C. 4, 1155

robber quill 16

WFH 1

80

Boat ramp south cutt  
palm 1

LPC 6 + 4 + 8 + 2 + 2 (22)

nestled  
summer tern

robber quill 80 + 20

great egret 1

hatter 2

Pied C. 2

common carpenter

Danville ant

130

Belg

grave

Bel

grave

Be

grav



(7)

Parsonsville via North

darts 2  
 WFH 1  
 RCP 2  
 RNS 4+4+2 (10)  
 Caspian Tern 26  
 Greater Tern 14  
 ribbed gull 20  
 pelican 13  
 grey phoebe 2  
 LPE 15  
 LBC 2  
 large camp phoebe 2  
~~seaside swiftpiper~~  
 green egret 1  
 WFH 1  
 greenshank 1  
 merganser

(112)

(8)

1 LPE 6+3+1 (11)  
 Caspian Tern 1  
 RCP 6  
 ribbed gull 2  
 WFH 1  
 Pied C. 1  
 Caspian T. 1  
 pelican 3  
 Jaybird 2+45  
 Ward Point  
 27  
 112  
 80  
 130  
 63  
 45  
 108  
 565

9

18/2/99  
9.50am fine E wind 36°C  
10 knots

Robert long western carpenter.

• blackbird 25 + 6

(24) LPC 10+4+4+18+15+180  
+30

Red C. 40

west tern 2+1

grey tit 2

BWS 1

black duck 2

silver gull 6

casinon T. 2

LBC 1+2

Great Cormorant 1

great egret 2+2

WFH 2

pelican 55

point grey

point grey

(160)

32 LPC 27+18+20+10+20+20+10 5

(6) VBC 2+2+2

UN T. 3

Danta 2+2

Cassian T 3

218 with egg 1

(58) Pail C 13+10+12+8+13

(14) pelican 7+1+6

290 Quercus W. 9+2+1

79 WFH 2

369 silver spall 2

Greenbank 3

great knot 1

Carpenter 2+1+10

great knot 1

silver spall 15

(11)

m. wading 2 (nest)

greenshank 2.

LPC 10+5

79

great egret 1

blue gull 5

WPH 1

Caspian T. 1

RCP 3

hurd 12.30-1.00

great egret 2

WPH 1+2

Pied Cuckoo catb 4

greenshank 2

red start 2

Caspian T. 3

RNS 1

RCP 1

greenshank 2+1+30

Sum 2.50

12

email

\* (high gain) mobile phone  
antenna aerial

\* wind antennas

\* window timing

phone sitting to read  
screen.

H<sub>2</sub>O in water tank  
HWD gears built

Email STOP Davey work.

mett wondering  
brimmers

9470577

13



15

(F) NI

None gets up. 24/2/99

10.05

dark 2

LPC 30

LBC 80

inst. white ibis 2

great egret 2

another with egret 3

ruby Moore 1

\* marsh duck 2

black duck 7+4+2 (13)

gull 2

purple swamphen 1

Common sandpiper 1+2+1 (4)

(F) NI ? Dec 8/2/07

Ballerne RP 24/2/99

10.30 double stop house

great egret 2-1

LPC 2

marsh duck 1

hunter 1

black duck 1

greenbank 2

head 1





(19)

(E)

- great egret 1  
 - WFH 1+2  
 • RNS 37+10+12 (59)  
 (100) 50 RCP 7+4+20+8+10  
 (10) 3 purple swamp hen 3  
 sharp-tailed sandpiper 3+4  
 silver gull 12  
 greasewood 2+1-1  
 phalaris 80  
 37 sweet  
 grey teal 114  
 western teal 1  
 banded stilts 10  
 BWS 20  
 Lunched 1.00-1.15

(20)

(B)

1156

Northern teal

UN. % of NW  
 350+50 RNS 44+440 10 62  
 (240) 50 40 RCP 20+60+30+11+30  
 - 182 phalaris 30+66+18 (296)  
 (60) 25 4- greasewood 5+4+12+4+6  
 (346) 250 - phalaris 2+64+30  
 teal 60 - WFH 4+4+4+1 (17)  
 (188) 56- BWS 10+14+55+6+31+20  
 - Point. white ibis 1  
 (160) grey teal 9+6  
 - western teal 1  
 - phalaris 2+1  
 - LPC 1+4  
 - southern shoveler 3  
 - great egret 1  
 - silver gull 20

2.50 pm Lunched at Voss  
 west data logger.

(21)

Pud core 24/2/97

4.40pm

Tuesday Moorhen 2

great teal ~~5~~ 44+10

black duck 2+6

swallow shoveller 9+3+8

BWS 8 + 30 + 12

great egret 1+1+3

yellow bill spoonbill 1+6+80+8

little egret 1

green heron 1

WFH 1

glossy ibis 4+1

white ibis 1+2+3

wood duck 10

black duck 2

FORD RD 24/2/11

- little eggs 1

- WFH 9

- 10 black birds 2+2+3+3

24 swamp hen. 8+10+3+3

chickens more hen 1

black headed gull 4+1+4+1

- BWS 7

- teal 5

data entry at Bunston,

Spring 6:00pm

Date 7:30am (5)

25/2/99 Wommsup Estuaries

8:30am NIS and 20 knots

cloudy 34°C

190 20 RCP 56 + 30 + 4 5:11 + 10:10

UN <sup>90%</sup> <sup>20.6</sup> RNS + RCP 730

90 changed size 203 ↓

100 RNS

150 observed 36 + 2 + 112 67 ↑

34 WFH 5 + 11 + 18 22  
20

return good 2 + 5 30

→ Prod C. 18

BWS 200

grenshank 1 + 33 34

21

(55)

(32) WTH 2 ~~11~~ 20+3+7  
sketch 650

(37) greenbank 21+15+1  
under canopy 25+85

sharp-tailed sandpiper (40)

(270) RNS 70+100+20+10+70

200+8 (310) RCP 30+20+30+20 ~~40+25~~

small m. id. warblers 150 ~~warblers 750~~

ivory 55+285 (340)

ivory gulls 20+12 (32)

banded tit 4+31 (35)

BWS 100

phoebe 30

lark sp. 12

m. id. warblers 400 (550)

sketch 1

LPC 1

great egret. 1

J(W)

(80) 13 ~~shelby~~ 44+4+8+10

(58) BMS 28+10

vireo gull 26

greenback 6

WFH 3+2+1

owl 1

RCP 11+22+6+5

RNS 10+30

humped stee 500+200+142

Worce 54+100+2+1

LPC 2+2+1

WNS? phay tanks 100

(26)

Wormeray I 25/2

Pied C. 1

great egret 2+1

2 Greater Sandpiper. 3+1

RNS 25+10

grey phoe 1

medium in id. water 20

little egret 1

LPC 2+7

LBC 1+5+1

Wormer Sandpiper 1

(27)

Wormeray I 11:50 25/2/99

200 avocet

(88) phalarope 16+59+10+1+2

(52) blackbird 3+4+18+27

(37) robin quill 12+15+6+4

(16) greenheron 6+1+2+1+14+1+1

(58) curlew sandpiper 10+38+15+4+1

(126) ~~12+60~~ <sup>10</sup> phalarope sandpiper 10+10+26

(24) RCP 18+12+10+24

(90) phalarope 61+20+8

(32) BWS 6+6+3+4+2+2+3+2+4

(8) Avocet white ibis 5+1+2

(7) LPC 4+3

much duck 2+1

total 20+50

remain 1

WFH 6+1

finish 1:00pm.



(H, E)  
th dead water: 25/2/99

Dwan 4

plum 2+5

great egret 2

LPC 8+4+1

Pud c. 1

mud duck 1+3

shelduck 9

WPH 2+1

marsh geese 4

black duck 12+3

duck 1

black water C. 10

(HW)

WFH 1+1

über-grad 2+1

Wagen T. 1

LBC 5

LPC 4+5+1

Openschubk 1

M F (N2)

WFH 1

LPC 5

Juste mitte über 1

25/2/99 (30)

Malbury Creek G(W)

WFH 14

BWS 1

Womersley bottom 25/2/99

salinity up stream #1 = 38.0‰

Temp 27.9 °C

Depth 410 mm

site #2

Depth 180 mm

salinity 43.8 top bottom 43.1 ‰

Temp 33.6 °C

site #3

3:50 pm

Depth 240 mm

salinity 61.0 ‰

Temp 34.3 °C

(31)

Monterey Colony 25/2/91

Site # 4

Salinity 75.5‰

Temp 34.2 °C

Depth 170 mm

SITE # 5

Salinity 98.5‰

Temp 33.9 °C

Depth 170 mm

Spindle at site 5 4.50 pm

Spindle at tunnel base 5.10 pm

NIL SOUND

Site for 32°C. Wave Cr. 26/2/99

SITE 1 9:00am

salinity 40.2‰ 25.1°C

bottom 41.2‰ 24.8°C

depth 1070mm

SITE 2

salinity 45.7‰ 22.2°C

bottom 46.1‰ 22.1°C

depth 180mm

SITE 3

salinity 47.4‰ 21.7°C

depth 260mm

SITE 4

10:15am

salinity 49.9‰ 23.6°C

depth 160mm

33

Varre estuary 26/2/99

site 5

salinity 55.0‰ 28.2°C

depth 70 mm

site 6 11.20 am

salinity 79.8‰ 27.1°C

depth 180 mm

site 7

salinity 90.5‰ PPK

Temp 31.7°C

depth 70 mm

Good RD 12.15 pm

salinity 410 ppm

Temp 27.1°C depth 350 mm

west winds  
get teenage sized  
new hole

17/3/99 Penguin Island  
fire continued 30°C 10.30

Pelican colony  
10 adults

80 juveniles

ranging from close to fledging  
to two weeks old small

downy chicks

looking very settled

cons. 1 adult - adults strength

weights on wind side of island

Boulders Island Tide Light

30 pelicans on east shore

old colony not in progress

Boulders 50+ pelicans

66 ~~50~~ terns in every lagoon

Arrived 5:50am

36

Varex optus 2+/3/99  
9.15 cloudy 24°C

F(NI)

① - LPC 1+2+14 SW 100

- Wood D. 6+3

- Rose W. This 2.

- loot 1

- Marsh duck 3+2

- WFA 1

- water 3+3

- LBC 7

- Parakeet 100+100

- Yellow-billed spoonbill 1



F(W) Estuary view drive 9.50a

Pacific Golden Plover 8+3  
Pied-billed Grebe 3+1+2  
Total 138

Chestnut 5

Clay-colored Sparrow 1

Phalarope 136

LBC 1+1

LPC 2+2+1+3 8

(915)

Black Duck 9+12+12  
- Wilson Quail 46

3+1+1 Yellow-billed Cuckoo

- Raven 9

- Goshawk 7+2

Great White Owl 4+1+2

Great Egret 4+1

Red cap Pigeon 1

F(5) 24/3/99

- Doherty 47B 61-11
- Debra gull 4+3
- Doherty 4+2
- Greenbank 2+2+1
- Pacific Golden plover 3
- mixed duck. 1
- RCP 1
- WFH 1

~~E 40 the 10 mixed species display~~  
 →

(39)

Ducks 800  
500 teal  $\downarrow$

(360) 300 black duck.  
chestnut teal 2

jacanas 5  
avocet 18

(40)

E 24/3/99

(134) 11+ ~~black~~ 7+8+50+58  
~~RWS 70~~

river quail 8+210

(85) RCP 1+6+17+4+60

RNS 16+20+20 (96)

WFH 1+3

~~BWS 4~~

duan 10+1

openbill 1

grey duck 2+3+14+6 (25)

black duck 61

3 BWS 650 ea 800

musk duck 5

teal 300

2 short-tailed cormorants

curlew cormorant 6

~~\*~~ Banded otter 100

(21)

section B 24/3/99

shelved 739

black chalk 174

RCP 4+4

grenobles 6+3+<sup>13</sup>(12)

(120) 50 RCP 12+4 40+14

(380) RAS 120 60+200

finish 2.45

---

g (w)

WFH II

grenobles I

24/3/99 Ford RD

4:00pm

Yellow billed gann 19

swan 5

petrel 1

Porcupine 38+2+2 (42)

Black duck 55+1

Greenland 1

WPH 1

Arctic white ibis 1

wood duck 10

Teal 7

duffy moose den 1

LPL 2

SWW obelisk

(43)

4:30 pm Peel Cove 24/3/99

teal 31+28 (59)

LPC 1

dusky moose hen 2

Pink bear 1

Black duck 35+8 (43)

grouse 1+2

BWS 76

WPH 1

Arctic Ptarmigan 1

yellow billed gannet 28

swan 2

~~ptarmigan~~

swamp hen 5

great egret 1

Grand Bursera 5:30 pm

Start 7:30am J(E) (44)

24/2/99 Wamrup ordinary

SW 15-20% 8-30am average 22°C

sum (32) pilings gull 20+12

UNID → RCP 30+6

→ RAS 50+5+15 (70)

WFH 1+1+1+2+2 (7)

3+8+6+7+3 (41) overhead 1+2+4+4+3

(159) 131 overhead 2+10-2+5+5

Bare 3+52

5(C)

(200) RNS 10 } 330 <sup>1/190</sup>

(442) RCP 2 } <sup>1/40</sup>

Overhead 313+60

(573) LPE 2

Street number 42

caption T. 1

below gull 10

WFH 2

45

1+2 Spent much  
little again!  
great comment 1

46

5 (W)

silver gull 92

redpoll 137

ALP 24+8

WPH 1

greenback 1+1

I

- silver gull 3-40

WPH 1

great white ibis 2

redpoll 23+5 (28)

greenback 2

⑧ LPC 2+2+1-2+1

pelican 2+1

mixed d. 2

LBC 1+2+1

Teal 2



F (N2)

LPC 2

great egret 1

H(W)

WFH 1+2

black P. 2

LBC 10

LPC 3

Deadwater

great egret 2

great egret 2

black duck 10+6+2

WFH 2+1

great egret 1

little egret 1

great egret 1

black duck 2+2

3

LPC 6+2+2

great egret 2

black duck 2

great egret 2

great egret 1

black duck 1

25/3/99

Worming Station

gates #1

38.4 %<sub>100</sub> TOP

38.1 %<sub>100</sub> bottom

temp 22.0 °C

depth 480 mm

gate #2 2.19 pm

rainy 40.8 TOP/BOTTOM

temp 21.8 °C

depth 350 mm

gate 3 # ~~1~~ 2:36 pm

rainy 49.2 - or/pt

temp 22.1 °C

depth 180 mm

50

5  
28/3/99 Monrovia Guyana

Site 4

Tripod bot. salinity 70.8‰

depth 180mm

temp 22.5°C

SITE 5 3:25 pm

salinity 90.5‰

depth 200mm

temp 23.2°C

0/0

26/3/99 Vase Crustaceans

SITE 1 Salinity 39.5 ‰ Top  
845cm 39.5 ‰ middle

39.2 ‰ bottom

Temp 19.8

depth 1.35 m

SITE 2 9.05

Salinity 41.5 ‰ Top  
42.0 ‰ bottom

Temp 17.7 Top

17.8 bottom

depth 210mm

52

SITE 3 26/3/99

Salinity 43.8‰ top

44.7‰ bottom

Temp 17.8 top

18.0 bottom

depth 400mm

SITE 4 9.45 am

Salinity 50.3‰ top

~~63.7~~ 63.7‰ bottom

Temp 18.2 top

20.4 bottom

depth 210mm

(53)

26/3/99

Water estuary

10.05 am

SITE 5

Salinity 51.5 top

58.2‰ bottom

Temp 18.3

depth 370 mm

SITE 6 10.30

Salinity 57.5‰ TOP

73.9‰ bottom

Temp 17.8 top

18.9 bottom

depth 140 mm

(54)

Various estuary 26/3/99

SITE 7

salinity 75.1‰ top

75.6‰ bottom

temp 21.0°C

depth 120 mm

11.30am SITE 10 Fossil RD.

Calibration

2ppk standard read 2.43ppk

adjusted to 2ppk.

salinity 312 ppm top and bottom

temp 21.0°C top and bottom

depth 330 mm

55

VASSIS EST. 27/4/99

9.00am water higher than road

spectrum of water gators / groups up s. = 0.0

PMI

Black duck 14 + 2 + 7

mud duck 4

teal 2 + 1

LPC 1 + 3

yellow B. spoonbill 2

duck 1 + 2 + 1

LBC 3

WFH 1

coot 2

colour gull 1



56

Estuary near Chrome

F (W)

Redstart 66

Teal 560

Chestnut teal 3+1

Black duck 100

Curlew 3

Silver gull 50

LPC 40

LBC 15

Swan 10

White ibis 3

Great egret 4+1

WRH 3

BWS 34

Green heron 3

Pelican 2

RCP 1

57

Jack snipe 100

Redstart 3

Black duck 5

WRH 2

F(S) B. RD

Black duck 23

Redstart 23

Teal 3

BWS 29

(58)

<sup>245</sup>  
117

(59) 13mg 1  
\* 295

E 400 teal 1 + 4 + 30  
435

(65) 10 + 20 = 25 black duck 5 + 5

215 → 10 BNS 20 + 12 + 65  
(322) 9 ~~black~~ marsh duck

white gull 18 + 2  
black. white ibis 2

LPC 2  
RCP 15 + 2 + 2 (20)

RNS 5  
Black-jointed C. 9 + 1 + 6 (18)

WPH 1  
greenhead 1

pelican 1  
sharp-tailed sandpiper 2

550 unidentified ducks  
Caribbean tern 1

Varx level 0.25 1200ms

B

lunch 12:40 2<sup>nd</sup> hour

(278)

of school 133 + 145

400

school check

~~50~~  
77

total 40

~~58~~  
193

100% 50% S

RCP 40+15+6+76+16

50% L

RNS 40+2+6+16+37

with 1

790  
48  
18

finish 2:40 pm

(61)

April 20 27/4/99

3.30 pm

~~purple saxifrage 60~~

~~glossy star 1~~

black spotted P. 2 + 60

~~woodcock 2~~

~~black duck 26~~

~~4 black~~

~~white moorhen 1~~

black spotted plover 10 (2)

black 7

~~purple gull 10~~

~~woodcock 1~~

fuel gauge

~~5+3+3~~ 5

81) 40, 17, 5 fuel check. 5+1+5+6

24) 3, 8, 2+ fuel 3+6+2

opening into 1

5) readings ten 2+1+2

open both 3

duchy mean low 1

in road check 2

mean 2

63

Warming up

5 bag 1 28/4/99 8:15  
5(E)

413 40% RCP 30+10 40 205

60% RNS 67 2478 315

WIFH 8

BWS 121+320 440

shelton 2.2+142

grey teal 153

silver gull 10

Bag 2 5(C)

teal 13

shelton 3 + 8514 + 20 537

BWS 20+6+6 32

RCP 15+12+12+10 50

RYS +12+1

LPC 3 WIFH 2

greenhead 5 silver gull 15

(64)

5(W) 5 bag 3

WFH 28

Blackbird 114 + 213

white yellow 40

REP 20

I

chickadee (19) 4+4+4+1

WFH 2+2 (4)

greenback 3+2 (5)

LPC 5+36 (41)

REP 1 white ibis 3+3 (6)

BWS 1 peewee 1

marsh duck 3 LBC 26

tree 22 Great egret 2+1

spoonbill 12

black duck 4+20

Vance gates to bridge

Hayman RD

F(N2)

30 ~~unidentified~~ ~~check~~ Black D.

WFH

LPC 1+6+1 (8)

gates to darter 1+2 H(W)

mainway gates great carbonate. 1

whites plus 2

deadwater H(E)

WFH. 2+2

great egret 1

chickadee 2

Black D. 2 darter 3+2+1+1 (7)

pelican 2 LPC 6+5+2 (13)

swan 34 much dead 2+1

sub-titris 1 great egret 2

L LBC 1



(66)

28/4/99

Worming etc.

Calibration of TPS unit  
meter read 36.0% in  
36% TPS standard.

Site #1 1300 hrs

depth 600 mm

humidity top 38.0 T 20.0°C

bottom 38.1 T 20.1°C

SITE #2 1325 hrs

depth 400 mm

humidity top 48.8% T 21.0°C

bottom 54.0% T 21.3°C

6

(67)

Wormerrep Oct. 28/4/97

Site 3 1340 hrs

depth 260 mm

Salinity top 64.7‰ 22.2°C

bottom 67.6‰ 21.9°C

Site 4 1400 hrs

depth 260 mm

Salinity top 69.3‰ 22.2°C

bottom 69.1‰ 22.2°C

SITE 5 1430 hrs

depth 230 mm

Salinity top 87.9‰ 23°C

bottom 88.1‰ 23°C

Final 14.40 hrs

68

8:40 am VASSIE EST 29/4/99

SITE 1

depth 830 mm

salinity top 38.3‰ 16.7°C

bottom 38.1‰ 17.0°C

9:00 am SITE 2

depth 220 mm

salinity top 42.6‰ 15.2°C

bottom 42.6‰ 15.2°C

9:16 am SITE 3

depth 450 mm

salinity 43.6‰ 14.5°C

bottom 49.9‰ 16.7°C

(69)

Voxe estuary 29/4/99

9.38 am

SITE 4

depth 250 mm

salinity top 49.7‰ 14.7°C

bottom 50.0‰ 15.0°C

SITE 5

1005

depth 250 mm

salinity top 57.0‰ 15.3°C

bottom 57.6‰ 15.3°C

SITE 6

1030

depth 260 mm

salinity top 71.2‰ 15.8°C

bottom 71.9‰ 16.1°C

(70)

Voss Survey 29/4/99

11:50am SITE 7

salinity top 74.8‰ 18.2

bottom 76.5‰ 18.6

depth 180<sub>mm</sub>

11:50am SITE 8

depth 30-40<sub>mm</sub>

salinity top 94.3‰ 22.5°C

Calibration note read 2.0 ppK

as 2.37 ppK

now reads 2.0 ppK.

12:30pm SITE 9

depth 30<sub>mm</sub>

salinity 94.6‰ 22.5‰

(H)

Jord Rd

SITE 10 29/4/99

12:50pm depth 300mm

salinity top 323 ppm 20.0°C

bottom 306 ppm 20.1°C

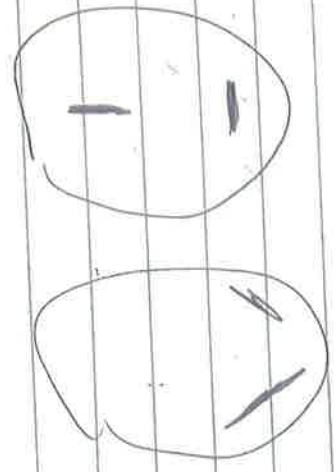
9:00 am Scanlon Surveys  
Bob McLendon  
Bill Scanlon etc.

- \* heavy 4x4 northern behos.
- \* motor sizes
- \* trailer?

Judges x 2 / gas bottle  
pick up tent  
" " VISE

full pants with  
pockets

ring gln about paddles  
Tables x 2  
tents 2 x 2 men  
1 x 5 man.



8:00 am start  
Monday Scanlon's  
Doreky.

wire in vehicle

under

~~trucks~~

~~margin~~ margin

water in cooler and tank

small tank 8' x 6'

~~12 volt~~ bridge

Ring Scott Guller Moon

unleaded fuel Jerry

Start 7:00 am 3/5/99

Seminole Survey 8:00 am.

Surveyor Paul New

survey land Tom.

net hwno 97632222

015776079 PAUL

Bob Cooper Hemingway  
Redox

Thomson's Key did not fit

Gills road - existing Dala BM

used RM's installed, levelled

to gauge water loop. end

star iron with white points

on top.

Lunch 12:30 at Forestdale



(76)

Calan datum not found.

No. 1 gauge fallen over.

No. 2 gauge found O.K.

plate 4 m fixed. Out O.K.

Dala BM fixed. Left of

park at end of Moore Rd

Calan gauge found with

Corp. gauge levelled.

Spindle in hole 4.50 pm

Shopping for trip

Commbine 6.45 pm

(77)

Start 7.30 am

4/5/99

(Seymour's 9.00 am

water in tank replaced gear

pick up motor.

THOMSONS WOOD

levelled calan gauge 1.939

No. 1 was to level 1.954 angle height

No. 2 was

No. 3 was too low

both but I use the same height as

this was adopted.

No. 1 gauge nothing done

No. 2 gauge a poor position nothing done

new No. 2 gauge was levelled in

new ~~level~~ below 3 m Calan datum

No. 3 plate was replaced.

Dala BM installed with R.M's

datum presumed risen.

(78)

Gill RD GPS position  
not done.

Barresthal  
levelled new BM  
to existing BM to check  
AHD of water loop gauge

DATA

95351869

Travel to Pongora  
AQUB Cannon Park 6:15pm  
P70 paid by Paul (Bentons)  
\* AC auto 3 to Bentons

(79)

Start 7:00 5/5/99

quarter to change battery at 9 mile

348.3

Nyne Mule  
located old datum it was  
damaged, No. 1 gauge was  
revised by Robinson persons  
No. 2 gauge height adopted  
2 new plates were put on  
screw, (in good condition)  
top gauge height 2m  
Data BM installed in clearing  
with off RM's lake height  
put on BM from No. 2 gauge.

↑  
Thud to Muncie  
Lake height of Data BM is 2.861  
↓

(80)

Murray 24739

Dotum found in good condition  
No. 1 gauge board and plate  
in good condition.

No. 2 gauge board O.K.  
plate is bent, needs  
replacing

Dot. BMA with RM's  
installed

gauge No. 1 = 1.10mm

No. 2 = 0.993

nothing done

(81)

M. C. Larty

Dotum 1.465

No. 1 gauge  $Z_m = 2.0$

No. 2 gauge  $I_m = 0.998$

plastic plate put on stainless

steel gauge that had paint

fallen off. used stainless

bolts and tech screws in to

plate.

hauled from BM 334 on mills

road to Cabin station with RM's

$\therefore$  AHD calculations for cabin station

and  $\therefore$  lake height.

travelling to Calgary 140

concession paid. Finish 6.30

mid 29.50 amount VISA



(84)

HARVLY 126257

height of star iron 1535 mm from ground.

Star iron hole height = 2.211

Dula BM hole height 1.894

replaced bottom plate with

stamper gauge

put old plate (in V. good cond)

above (2 m)

levelled to new Dula BM with

BM's hole height = 1.895

Finish 12:00 pm

Dora Bennett

water and Power

Commission

(85)

Egypt

no datum found

No. 1 gauge was secure

replaced plate with stamper plate

installed Dula BM and RM's

levelled to gauge

2.723 hole height for

dula datum

travelled to Gellie from Jorox

lodge motel

Finish 6:00 pm

(86)

7/5/99 Start 7.30am  
travel to Red Lake

arrive 11.30

install BM with RL's LH of BM

levelled to gauge  $\rightarrow$  3.870

No. 1 in good condition both  
board and 2x plates 7mm high  
levelled

travelling to Brown Rock 306-

installed DOLA BM with RL's

Calm Datum had cracked, still

able to level from base was

solid, but on sloping ground

No. 1 gauge's <sup>is</sup> good condition

and both plates O.K.

No. 2 gauge board is solid but

has been bent. plate is

BM lake height 3.792

(87)

7/5/99

solid but rusted 1m gauge

No. 1 gauge 50mm high than

Calm Datum

No. 2 gauge 60mm high than

except Calm datum has sunk

or initial survey incorrect,

travel to Meredith

campin with at Brown Park

\$22.00 (166 all exp.)

Finish 6.30 pm

(88)

Start 7.30 8/5/99

Lab: Conquer  
water level 0.357 datum

1.5 datum height

+ 0.35

= 1.85 - water level

datum under water.

Each details changed

gauge not seen

Dola BM installed with

RM's and levelled to

COM datum.

unch.

(89)

ME Marshall 8/5/99

Install Dola BM with reference marks

Dola BM is 1.54 above in lab

datum is lab height 2.54

gauge has fallen down, attempted  
to put back on base and level

not accurate  $\pm 20$  mm

water datum O.K. starting to break  
down

levelled between Dola BM and

Lab BM

The iron support has a

height for reposition of a new

gauge at some time.

(90)

Mollam lake 9/5/99

Installed Dala BM with R.M.s  
light too poor for auto level  
travelled to Began life  
NR at 5.50 arrive Began  
6.40 pm  
camp in back yard

9/5/99

Depart for Mollam lake at  
7.30 arrive 8.15  
level to gauge from lake datum  
both in good condition  
1m gauge 10mm below datum  
is 0.99

BM lake height is

(91)

lake levels 9/5/99

Dala BM lake height  
~~7.566~~ 7.566

No. 1 gauge not moved up 12mm why?  
- 1.017

1.983 lake level of 2m

work on gauge No. 1

\*change plate level to 7.566 W

MIR CUSAIAK

Gauge No. 2 was 30mm below 2m  
repositioned gauge 30mm higher  
to agree with CALM datum is  
(chopper plus dist. to old centre  
datum)

No. 3 gauge was 33mm below  
other gauges were too deep to  
reach water level was 1.72m



(912)

Starts lake 9/5/99

due to access water access  
level changed to go around  
lake and come in at the bottom  
of the lake instead of Street U.R.

datum saw mark in tree not recognizable  
near No. 1 gauge ~~had been~~

part in O.K. (on tree)  
No. 2 gauge level O.K.  
gauge failed.

No. 3 not found, no longer  
there.  
difference between gauges  
was 7 mm

Data BM installed with RM's  
and levelled to gauges  
Travelled to Moora no  
accommodation

(913)

9/5/99

travelled to Waterloo  
lunch and meals at

Waterloo Station Hotel \$77.20  
Finish 7:00pm

depart 7:30am 10/5/99  
for Grooran for fuel.

Capponera runs good.  
Datum had broken from

base, although was still in  
position we took it off, cleared  
sand away (wind blown) and  
replaced. Levelled to No. 1

gauge 1 m mark = 1'005  
Gauge level O.K. plate failed  
PFB

(94)

10/5/99

No. 2 level O.K. plate section  
and in poor condition.

1m height = 1.000

Installed Data BM 1.258

(95)

10/5/99

Pinjanga has changed all route  
is difficult to follow. See  
new access map.

Level datum 3m

No. 1 gauge had fallen over and  
could not be repositioned  
having mud dirt, only recorded.

No. 2 1.963 1m mark.

level is warped, plates <sup>are</sup>  
rustled badly one is on ground.

No. 3 0.988 1m mark.

single line good plate levelled  
badly.

Data datum = 2.974 on level height

access to gauges No. 2 and 3

190m + 77m from BM gate

accessible by vehicle.

(96)

10/5/99 travel to Cately

for meal visit

7.45 pm camp at Enaminga

LENAMINGA

11/5/99 Start 8.15 am.

Dah BM = 4.224 left bridge

No. 1 gauge near old Cabin

detour on base side

wood post old, weathered

but solid, gauge poor.

Im mark = 0.994

No. 2 gauge wood post

good bottom plate missing

Im mark = 0.992

post in on West side above

No. 2 gauge. see new

crossings for access

details.

(97)

Korachin 11/5/99

lath datum = 1.5

No. 1 gauge = 1m mark = 1.976

(Data B.M. = 1.532 m lake height  
gauge plates in reasonable  
condition, wood post good  
height difference more  
probably due to roof  
disturbance, being only 500m  
from large tree.)

Data B.M. with R.M.'s were  
installed

Travel to Barcelona  
upon at Barcelona family

11/5/99 (98)

ickets. Paul paid \$70  
by cheque. I owe 1/3 of 70.

finish 6.00 pm + 30 min cook

with up 1 hr.

and observations

12/5/99

depart Barcelona 7.30 am

travel to Yarnie

\*we missed Nine Mile Swamp Rd.

to turn along Board HWY.

datum found it was O.K.

No. 1 gauge was damaged and

sent away (possible an attempt to

remove gauge 3m mark 40mm too high

No. 2 gauge board weathered but O.K.

both plates rusted one had been

nipped around board a few times

(100)

17/5/99

level was taken from 1 m mark determined by off site tape 1 m from established mark. 2 m gauge was.

No. 2 = 0.996 m

BM installed with RMs in between two large Malucas

trunk to Warrand

Calm datum was cut in tree with

2 m (2) nailed to tree. Joint

cut mark 1 was identified. Dist.

to top of 2 was added to auto

level and leveled out to gauge No. 1

No. 2 gauge plate was leveled but

solid and angle bar was

(101)

solid. No. 1 gauge plate was reset and level. but only 3 m difference. No. 2 also agreed with our work. No. 2 plate was replaced.

No. 1 gauge plate was replaced

3 m above original height.

B Data BM was installed with

RM's and leveled to final gauge

heights after replacement plates

were taken. AHD Data BM 266

was transferred to new Data BM

at lake edge.

PIAUL 92484364

(102)

12/5/99

travel to lake Chittang

Data BM with RMB per

in along fence line

levelled to No. 1 gauge

datum not found, probably

covered by level land.

No. 1 gauge adopted.

levelled out to mark on wood

left by plate at No. 2 gauge.

Board in poor condition.

\* put needle into bar-wire

line.

Finish at 5.30 pm

drive home via Tondokoy

train station 6.15 pm

30

(103)

15/5/99

went into work on

today for Zho (area) to

change over vehicles and gear.

7.30 wash down vehicle 13/5/99

wash down with to North coast

8.30am Tondokoy.

Installed Data BM with RMB

levelled calm datum to Water Camp.

nammy level finished Tondokoy

at 11.30 am Tondokoy

back to office. I returned to

office.

3.30 more to Tondokoy to

look for calm datum here at

5.30 pm.

(104)

14/5/99

Start 7.45

Tandahung. lake

Installed Dala BM with RM's

near 1<sup>st</sup> water large gauge

and levelled to that gauge

a guide stanch for the lake

datum suggested it was

some 200 m NE of 1<sup>st</sup> WC

gauge.

AE to find and level in

later.

Travel to Ellen Brook

installed Dala BM with RM's

near Kumbalyana pp. 30 m inside

Since joint loss of tool.

levelled No 1 and 2 datums

14/6/99

(105)

and gauges to Dala BM.

gauge O.K.

Travel to Twin Swamps

Install Dala BM with RM's

near No. 3 swamp North West.

levelled to lake datum

gauge needs repairing by DC.

DSAP

arrived 6.15 pm

(106)

Start 7.45 am

17/5/99

pick up Tom, pick up  
wires and Lawrence drop off  
Paul to Jerry's, buy some  
and Jan pick up John and  
\$20. Travel to Mucka  
pick up Paul travel to  
Chandala

Station Sound (1.5m) levelled  
to No. 1

No. 1 0.988 1m mark

No. 2 0.998 1m mark

replaced gauge plates at No. 1  
2mm high to agree with datum  
used plastic gauge gauge  
found O.K. but wearing

No. 2 gauge found in poor condition  
no plates on board, levelled to  
at mark underneath  sign only  
2mm low. installed angle line  
with SS gauge. 1m gauge.  
level height 0.999.  
installed BM with RM's.

(107)



(108)

Amul.  
 travelled to Gingin lake  
 1131241 assess size creek at mouth  
 of lake with census blocked  
 by fallen tree  
 No. 1 gauge and board  
 in poor condition 0.988

No. 2 angu. line and gauges  
 in good condition. 0.988  
 as both gauges are the same  
 I suspect due to the station  
 being so close to a large pop. bank  
 it has been pushed up by  
 root growth

Spent 5.30 pm  
 Commission at 7.00 pm  
 along 4x4 trail to Gingin 131241

(109)

Bill Scanlon 93771313  
 Geoff P. 93877276  
 93677099

bearings  
 maintenance  
 \$200.00

paid any damage  
 bottom tractor  
 unhelpful.  
 hung holes in back  
 back tyre flat / fixed  
 unleaded fuel with oil.

(110)

18/5/99

Start 7:30 am

Met Paul at Muckee at  
8:40 am

Traveled to Mangala  
across through ladies property  
no gauge left only pump  
in ground.

deton found in old Jura  
line.

Bo installed with R.M's  
on opposite side of stream  
pore linked to lake  
deton.

traveled down along river  
way between Jura St  
Nambung

(111)

18/5/99

Nambung.

No. 1 gauge O. 9/16 plate coming  
off board, board is weathered  
installed Dala BM with R.M's  
and linked to lake station

Colm. station in walking, suggests loose height a 10mm  
of check with B.M. 11cm.  
notes.

Walking

No. 1 gauge board O.K.

Loose beginning to weather  
gauges O.K. 6mm too high  
deton O.K.

Dala BM installed.

Bambun 18/5/99

No. 1 gauge had paint falling off up to high water mark. Saw on plastic gauge wrong SS bolts and plastic ties. Unable to identify BM and RN's. Hand SIM PAIN'S diagram and survey notes to Paul at Seanlan's. took 2 photos of peeling paint from gauge. covers by imdong wire on right side of gate. finished 3:30 at site.

2 x 1/2 of 170-00 1231  
card St Seanlan's

46.62 owed to Seanlan's  
\$ 46.70

VISA 255.58

Avon 18th 7 nights x 50.70?

304.20 ✓  
~~330.70~~  
255.58  
99.32

1 hotel motel and motor load.

(114)

Dababerry.  
work on - look bed  
level of ~~old~~ ~~work~~ the old  
gauge at the new gauge  
site to determine a depth  
the only the old gauge  
could have been read.

Ring Pegs Tamed about  
subed gauge or gauges  
be used to take depths from.

(115)

Calibration of TPS FL90

27/5/99

36% Standard recorded at 30.0%

Calibration O.K. at 94.3%

9

6

7

8

5

4

3

2

(716)

28/5/99

Vare gets 0900 hrs

ex gauge 1.02

even gauge 1.04

F(N)

LPC 1 ~~4 black chuk 8~~

LBC 1 teal 2

~~char 1~~

F(N) Good ones

Black chuk 60 (72)

Good white silver 3

F(S)

nothing seen

(1A)

F(W)

Extremy view back

Black chuk 6+26+8 (40)

Black chuk 8

~~black chuk 8~~

4 great spots in ~~front~~ ~~the~~ ~~eye~~

sample brown 2

black chuk 1

black chuk 8

\* (D)

8 black chuk 26

black chuk 2

WFH | 40 silver gold 22

brown 2 (62)

LBC 2+1

LPC 2



oc 9/2/07

(120)

475

(A)

28/5/99

~~seen 2+7+7+2~~

130

~~12+2+100 130 black duck 60~~

~~open field 1~~

(50) 40

~~thinned ibis~~

~~BWS 10+60 (74)~~

~~(60) 8+4 phalaris 4+20+6+8+2~~

~~(71) ~~157~~ seen white ibis 75~~

~~river gull 150~~

~~wood duck 8+2 (12)~~

~~wood duck 1~~

~~LBC 1+1~~

~~WPH 3+10 (25)~~

~~solidly timber edge 1~~

(121)

G(W)

28/5/99

black duck 4

28/5/99

Ford RD

(17) 4+15 downy woodpecker 4+2+2

(24) 2 black duck 2+9+8+3

seen 2+1+4 (9)

downy woodpecker 2

great egret 1

marsh duck 1

(122)

28/5/99

ped cave 3.45 pm

proton 2

first water ibis 2+8

second ibis 2+1+2

total 3+6

(36) black duck 2+3+8+1+4+8

total 2

gull

total 2

month duck 2+8

LPC 2

LBC 1

proton 2

black more 2

visibility 1

total 1

total 4

blue tit 2

with tail splashing

1.00

(123)

9.00 am. Warming up 29/5/99

5(E)

chained ibis 100

first water ibis 6

(76) 16 black duck 8+12+20+8+8

total 7, ~~104~~ 104+4 (115)

152 20 black duck 110, 70+6+20+16

total 2+32

unidentified ducks 470+50

WFF 1+4

black gull 11

proton 1



5(4)

~~Frank~~ (80) 12+18+20+10+10

~~Head duck~~ (75) 4+2+20+2+35+10

~~4+14+20~~ (92) 2+1+8+7+6+1

~~2+3+6+8+child~~ (82) 2+2+2+30+8+4+4

ABC 2+30

~~WH 2+3+9+3~~ (17)

~~don id ducks~~ 40+10+50 (110)

~~max duck~~ 2+3

~~substantly~~ Kate + swamp terrain

~~mobile~~ 2+12

~~governor~~ D ~~total~~

black I (W)

black 30+17+57  
green 4  
white 7

10+17 27

great ~~5~~ common

meat 2+1

wood 3

black duck 20+3+7+34

220 86 m. id. duck 135 50/50 3

1 black white common mud c.

WFF 3+5

Foot 3+4

river gull 6

long billed grebe 1

Worming date layer

depth in 11.30in = 1.02

I

~~7-5~~ (12)

~~patch back 7~~

~~black 2+4+2+4~~

(77) 14 black back. 18+35+12

~~WPH 3+1+1~~ (5)

~~German I. 4~~

~~LPC 3~~

~~Peterson 4~~

~~black forested plain 500~~

ext. side of Wrenway sp.

depth. red. 0.64

bottom bridge and Moom gates

H(W)

green spruce 1

LBC3

Darter 3

LPC1

deadwater H(E)

LPE 3+1

WFEH1

passer 2

darter 1

F(NB)

black duck 2

moose duck 2

(128)

G(12)

28/5/99

Mollusc bank core

~~sporebill~~

~~17th Aug 6724 + 76~~ (55)

~~18th Aug 801103~~

~~19th Aug 57~~

~~20th~~

~~WFH 1~~

~~white ibis 112425~~ (20)

~~19th Aug 4~~

~~17th Aug 100~~

~~20th 10~~

~~WFH 4~~

WED 30<sup>th</sup>

Did not see any of the  
arrivals. (Just 5 of)

Get into garden

27/5/89 05:50 pm

5/MS sat day

WED 31<sup>st</sup>

(130)

Chandala 8/6/99

depth 0.645 / 10.00m

near note last year  
opposite pit of hole:

400 black dirt

20 fish

7 sporeball

20 oared ibis

100 old ibis nests

clumped close together.

50 note on edge of water  
old nests x 10

(131)

left WC gauge in Sandalup  
lended to at 17m BHD

Sandalup survey of Cal. Otter

WR Commission

lended to 45m BHD

3 121

44.34

43.76

          
    .58

455

          
    .125