

Printed 16/6/2014.

## Alan Clarke's Field Notebooks

(INDEX)

(Only pages with notes are numbered)

None of these  
have been scanned.

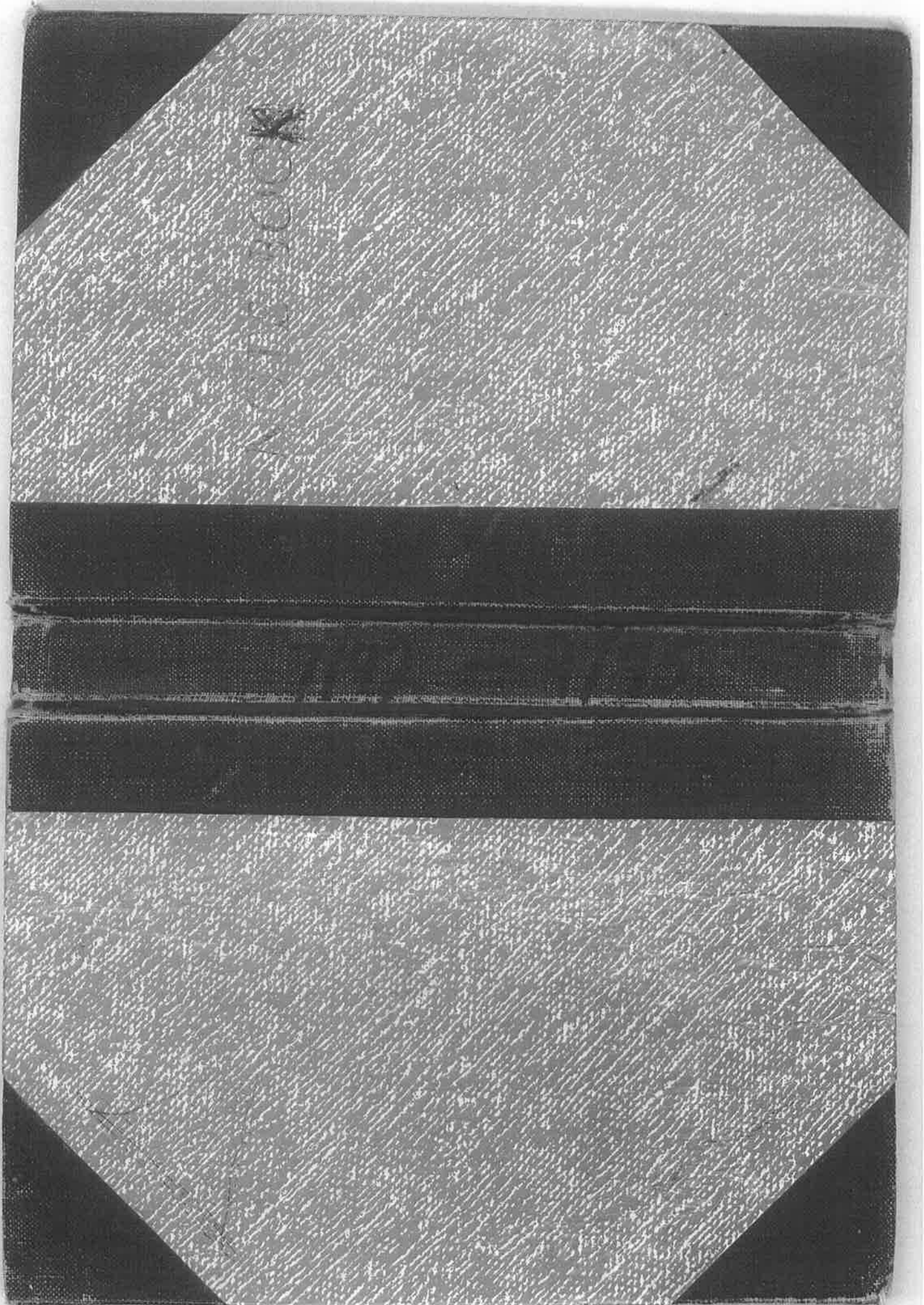
get  


- |     |            |   |
|-----|------------|---|
| 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)                                     |

29/8/2014

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.



①

341549  
MICHAEL SMITH

6.00 - 8.00

FRI

SAT 10:00

SUN 10:00-12:00  
release

MON 6:30 - 8:15

88 second

WED

\$70 for 10 classes FRI

\$80 for month

3397434

KALE

3 MONTH

Spore station 2/2 nts  
Zad flour

②

2

DATE	PLACE	TIME
	English name	month
	Scientific name	
	No.	
	Characteristics	
	Habitat	
	Activity	

*Faint handwritten notes in the right margin of the top page.*

3

12/7/92 ALFRED COVE 1.00

white ibis

cool

current

black head

black tail feathers, white body

1 pair

Feeding on clump lawn

1/15 one white ibis feeding on salt marsh shore line.

Australian shield duck

black head and body, brown breast white wing or neck

1 standing on central lower

1 feeding near by in salt marsh.

4

little black cormorant

drying wings on a stump  
body all black No. = 1

little Pied cormorant

No. = 9  
roosting several groups  
yellow breast small white  
under body remainder black.

Pelican 3 groups of 3

swimming

Sea Gull (grey) only a few.  
groups of 3-4.

- 1 Black Swan

Red Tit

No. 5 Seeding in salt marsh ponds

1 has black markings on back of neck others have partial to

no coloring. crown greyish

Seeding in a group. pink legs

water or wetter fly catcher

all black

1 pair running around lally  
weaving run stop run.

white faced heron

No. 1 Seeding in salt marsh.

orange-yellow legs

grey body white face

quite fluttering run and movements.

cherry teal

white neck brown body

green head

black ducks in pairs Seeding  
in salt marsh ponds

also seen stills again in  
other areas.

(7)

red colored lambert

1 pair at hollow in tree

blue head green at back

yellow orange on neck

green on back and tail

breast blue.

Pair ~~to~~ Lincoln Parrot

1 black head yellow neck

head green neck blue

Tail feathers

nesting in eucalypt

(8)

magpie look feeding on grass

only 1



9

14/7/92 LAKE TODDALUP 17-30  
1 male musk duck feeding  
on bread handouts diving  
to bottom.

12 WOT  
Feeding in shallow  
white fore head

1 Swampphen immature  
broad red beak  
white tail  
purple to black long  
red legs, tall bird

10

6/8/92  
MCCARLES LAKE (SOUTH LUNBURY)  
AFTERNOON - STRONG SW WIND  
RAINY PERIODS

STRAW NECK IBIS x 800-1000

BLACK SWAN x 1

MALE MUSK DUCK x 2

FEMALE " " x 6

SPOONBILL (YELLOW BILLED) x 4

SWAMPHARRIER WHITE (WWT)

8.15 WOODVLE 9.00 leave

10.00 pick up Ken.

1.30 AMC (south lunbury)

1.45 arrive at lake set up for  
set up hide  
leave

(11)

7/8/92

McCarles Lake

8:00 → 2:00

conditions: CALM, COOL, OVERCAST

BIRDS - OSPREY \* 1

SWAMP HEN \* 1

M/F BLUE BILLED DUCK \* 12

M/F MUSK DUCK \* 8

SPONSBILL \* 6

STRAWBERRY IBIS \* 1000 (nesting)

on side of road back to Perth.

manned duck \* 4 pairs

white ibis \* 20

(12)

(13)

16/8/92 SUN. PRIVATE 3:30

LAKE SOONDLALUP SOUTH

WINDY (SW) PARTLY OVERCAST

Grey teal \* 1

Dusky moorhen \* 1: red fore head

WOT \* many, small yellow tinned teal

NOTE: constantly disturbed by a dog, more across ocean reef road to southern end of Lake Soondalup North.

4:30pm

mud duck 1 male 2 females

blue billed duck 4 males 4 females

WOT approx. 8

Great Crested Grebe 1 pair.

PTO



(15)

2/9/92 (cont.)

12 chicks were tagged using  
11 and 12 size bands on 2-4 week  
old chicks. They were all weighed  
and banded.

33 eggs were collected.

approx. 10 chicks were taken and  
put down for analyses of *gordia*  
and other infections.

Bandwater in after noon

straw neck this x 8

inspected 8 nests more had

2-3 white eggs, many sea gulls  
in the area probably predating  
on the chicks.

silver gulls x 100 approx.

(16)

2/9/92 (cont.)

pink over dark x 3 10 SH  
weath deteriorated throughout the  
day heavy rain 20-30 mph wind  
SW

12-13/9/92

Northern Depth gauge run with  
two Indonesian Park managers  
and Tim Lane.

Visited 8 lakes - Toondalup,  
Chondala, Guraga, Crachers,  
Bambul, Logue, Egane, Wamond.  
SPT. Pacific heron, grey teal -  
white land on top of wing.  
Dove on ecidna. stayed at  
Seven shakets out. night.  
Sun. sheep dog trials at  
Crealla. Butcha bird,  
wildflower farm.

MON TUE

18

16+17

HARVEY 6:30

BLENDED

HARVEY HOTEL

WAGON WHEELS

TOYOTA

LIFT FOR VOLUNTEERS

CHURCH ACCOM. AT HARVEY

NO. 5 ROGERS

ROUGH NO.

TENTATIVE BOOKINGS

FURTHER BOOKINGS

HARVEY CALM FOR HOTEL

(19)

TWIN SYSTEMS 2/11/92

CLOR.

# 3 450 mL

# 1 ~~400~~ 380

# 2 450

PH

# 1 5.55

# 2 5.40 adjust for slope 5.40

# 3 5.61

(20)

FOR #2 METER

TEST PH 10 buffer = 9.48

# 2 METER: 7 buffer = 7.18

10 buffer = 9.68

# 1 METER: 7 buffer = 7.0

BUFFER 4 buffer = 3.97

NEW BUFFERS: 7 =

# 3

SALINITY. 0.159 \* 10<sup>4</sup> 1590 ⇒ 0.818

# 2 0.159 \* 10<sup>4</sup> 1590 ⇒ 0.818

# 1 0.160 \* 10<sup>4</sup> 1600 ⇒ 0.821

buffer 10<sup>4</sup> for 7.76

15/12/62 SANDHURST LAKE

6 SACRED IBIS  
1 LITTLE PIED CORMORANT  
1 BLACK SWAN

LITTLE BITTERN  
in flight  
45:00  
constant  
chirping

2 or 3 more heard

crack or rattle call, rather rather  
SWAMP HARRIER

big Bittern in flight



22

1

20/4/03  
BIG SNARKS  
ESPIONAGE CIBG

LIFT OFF 9:32  
DOWN 11:24  
BERTH LAKE GRACE

LIFT OFF 11:40  
DOWN 11:48

START OF 12:44  
DOWN 2:58  
ESPIONAGE

23

*[Faint, illegible handwriting on the bottom page]*

(23)

21/4/93 ESPERANCE

MULLET LAKE NR

9:00

13 buzzards

4 white face terns

20 long leaved geese

4 Great western geese

1 yellow billed spoon bill

60 curlew

2 great egret

12 shorelark

1 chesnut teal dark teal teal  
white side pointer teal+beak

60 pied curlew with

little black x spur

(24)

19 spoon bill

40 curlew

14 white face terns

20 shell duck

20 shorelark

START 2ND RUN.

25

22/4/93 six wing

up 8.17

east to isosahed. bay  
along coast.

turned inland 10.00 to view  
along ~~the~~ lakes and spirit  
parade

down 11.30

25



26 ~~26~~

23/4/93 experience to capital bank

STARTUP	7.45	ESP
DOWN	8.25	CRPF ARID

START	3.30	CRPF ARID
DOWN	5.19	ESP

11.4  
12.47  
13.47

27

24/4/93

STARTS UP 9.00 ESP  
DOWN 9.20 CULL  
START UP 11.35 CULL  
DOWN 12.04 ESP

28

26/4/93

START UP 8.16 ESP  
SHOAL CAPS STOKES NP  
SURF DIVING  
RIGHT LADDER

ROCKS ST FUR S. SHAL. CPG  
2 5 2.1 -  
1 4 -  
1

WEST IS.

\*DOWN 9.52 HOPKINSON  
UP START 2.42 HOPKINSON  
DOWN 4.44 ALBANY

29

27/4/13

STARTS 8.08 ALBANY  
DOWN 8.57 BALD IS.

STARTS 1.10 BALD IS.  
DOWN 1.42 ALBANY

STARTS 2.09 ALBANY  
DOWN 4.22 PARTY

~~30~~

invertebrate taxonomy

Royal Society of water-birds

Journal of Aust. entomology

Aust journal of marine and  
freshwater research.

598.

~~30~~

(31)

12/5/73 LAKE M<sup>c</sup>DOUGALL  
Black Duck near middle

11062002

11062100

11062003

(32)

ROTO 31/7/93

OSPREY x 3

1 on nest West of pelican bay  
2 on nest pelican point

2x PILED OYSTER CATCHER

SHEAR DUCKS many

6x Pied Cormorant

1x Little Black Cormorant

ring neck pheasant

Kingfisher  
2000  
birds



33

11/8/43

PERTH 9:00 am

MANTUA 11:00 pm

to 7:30 pm

ANNIE PLAINS 9:00 pm finish

7:00 am leave

arrive Loom 10:00 am

shopping

aircon

check in

swim at Cable Beach

finish 5:00

MANGROVE HOTEL

depart 8:30 am

KIMBARLEY HOTEL 5:00 pm

depart 8:00 am

arrive Lake Gregory 4:00

34

take photo of  
fitzroy river

set up camp

guide run (rooms of creek  
channel) up both from creek  
downing of both black commercial  
along.

finish 6:00 pm

SUN 15<sup>th</sup>

rise 6:00

6:30 breakfast

begin 7:00

run up creek with three boats  
bird recording

(35)

grant within Sept (small)

I was in passage with Robert  
and 5 Var's

~~Robert~~ Robert in 12 point with  
4 Var's went right and  
begin counts.

afternoon back with with  
Robert and grant along  
track to the lake.

finish 6:00pm

MON 16<sup>TH</sup>

rise 6:00

breakfast 6:30

begin 7:00

man already in morning

(36)

with Richard Stearn and grant  
I took Mont (G.P.M. Kinnison)

...

...

...

...

...

...

...

...

...

...

(35)

grants when left (with)

I was in charge with Stuart  
and 5 Vol's

reached school in 12 pm with

4 Vol's with right met

begin counts

afternoon busch walk with

Rebeck and grant along  
track to Elk Lake.

finish 6:00 pm

MON 16<sup>TH</sup>

rise 6:00

breakfast 6:30

begin 7:00

main <sup>and</sup> survey in morning

(36)

with Richard Stearn and grant  
I took Mark (CAPM Krumholz)

... ..

... ..

... ..

... ..

... ..

... ..

(37)

cont 7/9/93

2 large eggs were found  
9cm by 5.5cm roundish and  
stained species not known  
grey chum surrounding eggs  
not extensive. nest in field this  
6 quonlills. nest 4 ft from  
water.

(38)

7/9/93

CHANDALA Depth Bay 1.0m

no ibis breeding

no ibis seen

CROAKERS

lots of old nests located  
no activity. 30 ibis seen  
in field near by.

Cove

200 ibis in fields.

400 roosting in trees in swamp

2 nests high in trees had  
2 eggs each. no activity in  
lower nests



CONT

ISLAND 3

N 1565

3

2

3

3

2

1

3

2

2

2

3

2

2

14



CONT

2 x swan nests each 6-7 eggs

2 night herons

10 spoonbills

1 large egret.

2 swans

2 + → mute ducks

20 blue billed ducks

10 black duck

10 grey teal

1 swamp harrier

grey butcher bird.

1345 x 4000

BIRD LIST LAKE GREGORY  
AND BROOMS INCLUDING TRAVEL  
11/8/93 - 30/8/93. ☒ breeding

- G LITTLE GRIBBS x 2
- G Great crested grebe x 50
- B Brown Boobies x 30
- B lesser frigate bird x 2
- GB Darter 50 ☒
- G B little black 3000 ☒
- G B little pied 50
- GB Pied cormorant ☒ 500
- G Magpie goose 400 (☒ x 1)
- GB Pelican x 1000
- G Swan x 300 ☒ 25 nests
- GB Tattler.
- G Green Pigmy goose x 2

- G Harehead 5000
- G Mottled goose x 20
- G Red 3000 <sup>recently abandoned</sup> old nest found
- G Pint eared duck 1000
- G Fringed duck x 4 immature
- G Black duck 1000
- G Plumed Whistling duck 2000
- G Rufous whistling duck 500
- G/B Great egret x 100/10 <sup>breeding</sup>
- G/B Little egret (just feeding) 5/5
- T/G/B White faced heron 20/50/1
- G/B Pacific heron 20/2?
- T Wedge tail eagle x 4
- T Little eagle x 2
- T Black breasted Kite x 2
- T/B Sea eagle 1/2
- G Night heron x 100

- B Brahminy Kite x 4
- B Forktailed Kite x 20
- G/T Nankeen Kestrel x 10
- G Brown Falcon x 1
- B Black Falcon?
- B Black shouldered Kite x 1
- T/G Spotted Harrier x 20
- T/G Whistling Kite x 50
- G/B Silver Gull 100/100 x 3 <sup>G. nests</sup>
- G Caspian tern 200 x 80 nests
- G Gull-billed tern 20
- G Whiskered tern 100 <sup>sooty breeding plumage</sup>
- B Crested tern 50
- B Lesser crested tern 5 <sup>yellow legs</sup>
- B Little tern?
- G Little Button Quail <sup>(great lighting)</sup>



- B Green sandpiper 5
- B Redback plains March sandpiper 5
- B " wood sandpiper
- B Large sand plover 100
- G-B Red breasted dotterel 10/20
- G-B Black fronted 10/20
- B Ruddy turnstone 50
- G-B Masked lapwing 50/20
- T Banded lapwing.
- G Aust. white 20
- G-B straw necked ibis 100/5
- G Glossy ibis 30
- G Royal spoon bill 5
- G-B Yellow Billed 20/10
- G-B Redback plains ~~Redback~~ Brolga 60/30
- T Aust. bustard. 10

GB Falco 1/1  
 BTGDiamond dove 500  
 BT Peafowl dove 100  
 T Spurfowl pigeon 2  
 TGB Crested pigeon 50  
 T Galeb 50  
 TG little corella  
 T White tail black whistler 10  
 T Port linedon parrot 50  
 B Red winged parrot 10  
 GT whistler 100  
 TG Budgerigar 3000  
 G Barn Owl x1  
 B Night jar  
 G Barn Martin 20  
 G Tree Martin 50

G Red backed Kingfisher x1  
 GB Rainbow bee eater 50  
 G Rufous whistler x5  
 G Varigated Wren 3 to 6+  
 G White rumped minor  x1 4 young  
 GT Yellow tinted honey eater x 20  
 GT Brown honey eater 10  
 G Black honey eater -> x1  
 G Grimson Chat 07 or 1/2  
 T/G Black faced woodoo shrike 20/1  
 G Zebra Finch x 500  
 G Long Tailed Finch 50  
 105 species

(50)

HERDSMAN

2/10/93

GRCG 5

DUSKY MORSHEW 5

COOT 60

BLUE BILL ♂ 2 OT 1

LITTLE PIED 2

LITTLE BLACK 5

PELICAN 1

GREAT LEGHAT 1

BLACK DUCK 2

MAUSK DUCK 20

CHAMORANS RUSSED WARBLER (CALL) 2

SWAN 8

Great Cormorant 1 all black

TIGLER SNOXIE 1

BULL FROG LITORIA MOORIN 1

SACRED IBIS 1

X6 CT Y6

DR DR TRANSPORT

X4 Z4

Z3

CS

CT

X5

Z2

X6

X7

Z1

X9

Y9

CD

CG

Y6

CH

CS

Y5

OZ

CK

CL

OY

OX

CR

CO

CP

5/10/13



PH  
PF  
DK  
DR  
DS  
FL  
DN  
DL

DN  
FL  
DR  
FH  
~~FL~~  
FF  
DS  
FK  
DK  
FS

(54)

HARVEY INLET

① POINT NEAR BIG LAKE

TRANSITS SOUTH 2 MIN TOP SPEED  
THEN MEASUREMENT AND SO ON  
TO RAMP.

②

(55)

Harvey River  
Cryptogams & muds  
= Fresh water  
before arrival only.

(56)

26/7/94

EAST SWAMP

Depth 0.8

water samples

- #1 near gauge
- #2 north end of track  
(separate water body)
- #3 pool east of track

(57)

NW SWAMP

Depth 0.105

water samples

- #1 near gauge
- #2 east of gauge 30m
- #3 track leading in to gauge,  
(west of gauge)

(58)

SW SWAMP

Depth 0.08 m

water samples

#1 at gauge

#2 SE of gauge 40m

#3 NW of gauge ~~20m~~ 20m

(59)

ELSON MOUND

Depth 0.41

water samples

#1 gauge with wires

#2 20m WSW of track entrance

to swamp.

#3 south of islands 40m

. SW of gauge with wires

1:00 pm MON 12



60

16/8/94

Depart Woodvale 7:30

Arrive Carronon 5:30

Carronon Sains Hotel 8:00am

#49 PH 8:16

P+N ~~PH~~ UNFILTERED

#56 P+N unfiltered

PH 8:52

DO S123 B119

#56A DO 100

5m deep

PH 7:35

P+N unfiltered

No Chlorophyll

7:00pm MOTEL

60

(61)

18/8/94

REPORT MOTEL 7.30am

#73

Chlorophyll 150mm

PH 8.49

DO 598 B96

#54 no chlorophyll

DO 596 B94

P+N unfiltered

PH 8.15

#77

PH 7.86

DO 5=150 B=140

76

PH 8.24

DO INSIDE 5=153 B=142

OUTSIDE 147 147

(62)

Turn tanks camp 8.15pm

Report 7.45 am

#62 DO 5=89 B 78

PH 8.85

#75A DO 5=115 B=105

PH 8.15

P+N chlorophyll filtered only.

#75B DO 5=99 B=89

PH 7.49

P+N chlorophyll filtered

Camp Marshbathona 6.45

(63)

Depart Camp 7.45

#70A PH 783

DO S=108 B=94

PHN ungettered

DINERS PAN

#75A PH 7.24

Dep 0.68 DO S=105 B=103

PHN Chlorophyll Jittered only

#68 18 8.09

DO S=115 B=104

PHN Chlorophyll Jittered only

Camp Matfeller Spring  
at 7.30pm

(64)

21/8/93 Depart camp 7.30

#67A Birdwary Spring

DO 68

PH 6.93

#67B swapped hole

DO 20m down from rock 149

30 up from rock S=115 B172

PH 8.22

#62A DO S=156 B=160

PH 8.75

Camp Madra Springs 7.30

(65)

Depart Camp 8:00 am

62 Mocha Spring  
DO S=72 B=75  
PH 7.62

42 Garopina  
DO S=74 D=75  
PH 8.57

38 Timba Timba  
DO S=105 B=106  
PH 8.20  
p+n unfiltered  
no chlorophyll

(66)

38A SALT GULLY  
DO 114 B=116  
PH 9.12

43 clay pan  
DO 95

PH 8.46  
no chlorophyll  
unfiltered p+n

CAMP JACOB CRISPER 7.00

Depart Camp 7.45

#58B DO 101  
PH 8.00

p+n unfiltered  
no chlorophyll

(67)

58C PH 8:08  
DO 95

44 Rocky Pool  
DO 130  
PH 8:64

58E PH 8:15  
DO 104  
no chlorophyll  
PTN insufficient

58D DO 156  
PH 9:32

Final Camaron Stalks  
6:06 + 6:20 + 7:15

~~58E~~

(68)

Depart Camaron 8:00

#34 MIZDO on Moorand  
DO S=139 B=134  
PH 9:32

POW North 9Km. S Moorand  
Station 35A

DO 68  
PH 7:75  
No Chlorophyll  
PTN not filtered

Final 7:00 Camaron

69

Depur Comoran 8.30

#36 DO 88  
PH 7.97

PTN in filter  
2x50m chlorophyll

#93

DO S=109 B=96  
PH 8.00

93A

DO S=114 B=98  
PH 7.66

FINISH BOOTHAWALLA POOL  
7.00 pm

70

Depur 7.45

93F Boothawalla pool  
DO 585 B 83  
PH 8.35

93E Cahell

spring  
DO 108 B=51  
PH 8.42

93D

DO S=140 B 143  
PH 8.73

93G

DO S=155 B=178  
PH 9.50

(71)

FINISH 6.45

START 7.30

#25 DO 83

NO PH

NO T/c

NO chlorophyll

NO P+N

ONLY IONIC + SALINITY

Fully entrance 7.30 pm 28/8/94

start 8.00 am

#15 DO S = 86 B = 84

PH = 8.03

#16 DO S = 119 BQ pinhole 3

PH 8.11

(72)

#9. DO 106 TOMAHA  
PH 7.80

#9A DO S = 126 Ø SINKHOLE  
PH 8.64

THINGS TO DO  
- areal photos Carlsbad station  
over wetland?

- buy buy waders size 10  
they buy boots size 10  
- really buy.

Denison 5.45  
start 7.30

(73)

#29A Dason pinnacula  
DO S=140 B=138  
pH 8.63

#20 Hamlin pool  
DO 167  
pH 8.22

FINISH KALBARRI 7.15

STARTS 7.15

#4 DO S=101 B=104  
pH 8.17

#5 DO S=113 B=107  
pH 8.00

(74)

6B DO = 108  
pH 7.38  
Chlorophyll 2x100  $\mu$ L filtered  
pH not unaffected.

6A DO = 130  
pH = 8.34

Finish Dumerind 10.00 pm

3.13.5



(75)

TWIN SWAMS SW

23/9/94

Depth at gauge 0.0  
water samples

- #1 at gauge
- #2 20m SLE of gauge
- #3 20m NLE of gauge

- #1 pH 6.54
- #2 pH 6.57
- #3 pH 6.91

Macrophyte cover 60%  
water temp

- 1 17.6
- 2 13.3
- 3 13.0

(76)

TWIN SWAMS E

23/9/94

Depth 0.21

water samples

- #1 at gauge
- #2 west of gauge 40m
- #3 NLE of gauge 30m

- #1 pH 8.16
- #2 pH 8.06
- #3 pH 7.94

macrophyte cover 50%  
water temp

- 1 19.1
- 2 20.2
- 3 19.4

(77)

TRIPS SMOGGS NW

23/9/94

depth  
 water samples  
 #1 at quays  
 #2 east of quays 30m  
 #3 west of quays 30m

#1 pH ~~8.09~~ 7.49  
 #2 pH 8.74  
 #3 pH 8.09

NW 100% water

water temp  
 #3 25.1  
 #2 19.2  
 #1 24.4

(78)

ELLEN BROOK

23/9/94

depth 0.3m  
 water samples  
 #1 deep quays  
 #2 SW 30m over island  
 #3 shallow quays.

#1 pH 7.63  
 #2 pH 8.26  
 #3 pH 8.35

macrophyte cover 50%

water temp  
 #1 24.1  
 #2 24.4  
 #3 27

(79)

BROWNIE ST PAST CALM

OFFICES right into Jones RD

1st Black Rd is Laborelum RD

1st House on left (green wood)

BYEMUP KEY.

(80)

(80)

LARUE CLIFTON

WATER clear

temp 14.1

DO 5.90.0 B. 94.8

depth 10cm higher

3<sup>10</sup>  
10/9/94

MOSBY ROCK POOL

2m+ depth

water clear

temp 22.0

Redox

Macrophyte 100%

algae plenty weeds

(81)

3<sup>10</sup>  
10/8/94

DRAVIS

10cm lower depth

4.5cm only Total pTN unfilled

Seagrass depth 5cm

Termin. lab

DO 5.89.0 B = 88.2

Temp 15.8

MUR 4/10/94

DO 7.2

Temp 11.2

depth 8cm

BYRON

depth

DO 5=94.1 1393.0

Temp 13.2

Cranbrook

depth

DO 134.0

Temp 17.1

Redose 110.3

WILLIAMS

DO 91.4 392.0

Temp 14.1

depth slightly lower

POWER

Temp 16.6

DO 5 114.9 13113.9

redose 207.1

METTLER

Temp 12.0

DS ~~98.8~~ 13

547.8 47.3

WALLUP

depth

DO 75.4

Temp 14.0

(84)

Wynncup

Temp 18.6

DO 150.0

depth 1.1 July 8 am deep

DOBODARY

Temp 24.5

DO 170



(ROCKERS)

depth 1.11

Temp 22.7

redloc ~~171.6~~ 171.6

(85)

MON 6.45-6.50

TUE 7.00-6.30

WED 6.45-7.30

THUR 7.00-8.00

(86)

THINGS TO DO

\* BUY 50 ym net material  
and make up x 2 nets

\* radio and speaker for  
targeta

\* buy 40% *Serravallo*  
*Serravallo*

\* organize more room in  
alcohol store

(87)

10/10/94 Cameroon aerial survey

7:45 ~~7:45~~ *Serravallo*

depart 8:45

Cameroon 5:45 pm

start 7:45

Plain 8:15

DOWN #10-28

found 4 mile camp 6:30

start 7:00

181

(88)

223 miles SPOKANE  
TV Tower

KYLIE

LEN PABGI

MOBILE 018 930760

\* gives it to tropic air  
Scriber's office  
Home

later

(89)

12/16/94 Sal-Mound

site

red capped. phenom x 2 + 2 + 6

Green Phant x 42

front

Temp 27

DB 133

depth 9m

pH 6.35

#79 Temp 28.8

DB S 109 B=102

pH 7.31



90

TWIN SWAMPS NW 31/10/94

SITE 1 road leading to pipe  
DO 100%  
Temp 20.6 pH 8.55

SITE 2 at gauging  
DO 114  
TEMP 17.4 pH 8.69

SITE 3 NLE of gauging  
DO 127.6  
TEMP 23.6 pH 8.88

91

*[Faint, illegible handwriting in the lower section of the page]*

(93)

3/1/95

L. CLIFTON

DO S=84 B=87

Temp = 22.1

depth - 30cm

Redox - 77

PH 7.97

MOSS ROCK ROAD

DO = 147 S+B

Temp = 18.9 S=19.7

depth - 2 feet

redox 149.3

PH 8.23

(94)

DAVIS ✓

DO S162 B154

Temp 26.0

depth - 30cm

redox - 35.9

PH 8.82

macrophytes 60%

YK100652 ✓

DO S95 B=92

Temp 25.2

PH 6.88

redox 113.2

more same

95

7.00

4/1/95

PAVIR ✓

DO 230

TEMP 17.4

redox 92

depth 8cm

pH 7.26

moist 20%

BYEMUP ✓

DO 109 B+S

Temp 22.0

depth 1.8m

pH 6.57

redox 59.1

96

WILLIAMS ✓

DO S=93 B=90

TEMP 21.8

depth -10cm

pH 5.00

redox 230

PAVIR ✓

DO 114

TEMP 20.8

depth -5cm

pH 8.99

redox 98.0

5/1/95

MSTOZLWR

DO 5=51 B=42

TEMP 15.1

depth 20cm

redox 164.1

pH 6.45

max 100%

YARALUP

DO 5=85 B=80

TEMP 78.9

depth 0.27 cm

pH 9.51

redox 141.1

max nil

COYRISLUP ✓

DO 115

TEMP 22.1

depth 1.72

redox 75.0

max 10%

pH 9.13

FLAGSTAFF ✓

depth 2cm

DO 24.0

Temp 24.3

pH 6.98

5/1/95

Pardegenning ✓

DO S = 32 J B = 30

TEMP = 22.9

depth = 1.47

redox = 74.4

pH = 7.58

COOM ✓

DO = 2.0

TEMP 24.5

depth 1.335

redox -162

pH 7.75

6/1/95

MALBYRING ✓

depth 0.30 m

redox 103.2

DO 48

TEMP 14.4

pH 8.55

MALBYRING ✓

depth 4cm

DO 19

TEMP 40

redox 10

pH 7.38

(101)

CRUMMERS ✓

depth 0.55

DO S=129 B=210

TEMP S=29.8 B=25.4

redox 98.6

pH 9.25

(102)

Depos L. Ammering 7.45

HARVEY EST. 21/3/95

first stop site #7

15 30

1 3

1 4


(103)

27/3/95  
 Depart woodstock 1.00 pm  
 Kallurri 7.00 pm  
 28/3/95  
 Depart Kallurri ~~9.00~~ 8.00 am

Mardathura station 8.00 pm  
 depart 8.00

Macha Springs  
 DO CH 98 75  
 RF 103  
 MOC 106 95

TDS 0.780 x 10<sup>4</sup>  
 Temp 25.0  
 pH 7.64  
 250 183  
 125 -

mmw  


MINIMIE POOL

pH 7.75  
 TDS 0.116 x 10<sup>4</sup>  
 Temp 26.0  
 250  
 125  
 DO MAX 95 95  
 CH 99 98  
 prod 102 102

MANIYA

DO 84 83  
 TDS 0.176 x 10<sup>3</sup>  
 Temp 25.5  
 pH 7.17  
 250 231  
 125 218

MANIYA  
 8:30 pm

Depart Maniya 7:20  
 30/3/95

BION MILK Breed 3:20  
 Milk milk 1:30



CLM 40

pH 7.51  
TDS 0.307 x 10<sup>4</sup>

Temp 25.5

DO CH 79 75

MAC 74 63

280 199

125 208

CLM 39

BIRNHELL POOL

DO MAC 170 182

CH 135 124

pH 8.3

TDS 0.409 x 10<sup>4</sup>

Temp 27.0

250 218

176

M

(108)

EDITHANA POOL

PH 7.91

TDS 0.278 x 10<sup>4</sup>

TEMP 23.0

DO CH 83 83

MOC 96 87

RF 90

CH BOTTOM 85 87

Flow 604 26.

(109)

Deep pool

CLM 42<sup>3</sup>

TDS 0.568 x 10<sup>4</sup>

PH 8.90

DO 127 120

Temp 24.5

250 201

125

*[Faint handwritten notes, possibly bleed-through from the reverse side]*

(110)

CLM 46

pH 6.16

TDS  $0.374 \times 10^2$

TEMP 23-0

DO 127 126

125 185

250 202

Breed

Biscuits 6-80

Final Maubertown  
12.00 am

start 2-45

Final 8-15 pm Mt Hood

start 8.15

SHAW'S CLM 50

SHILLERS BLEND

pH 7.16

TDS  $0.396 \times 10^3$

TEMP 22.5

250 203

Final 2/14/95 9.00 pm

start 3/4/95 8.00 am

CLM 49 GUM CREEK

pH 7.51

TDS  $0.961 \times 10^3$

Temp 23-0

DO MDE 71 57

CH 61 58

150 185

125 232

(111)

4/4/95

Start Yellowlong

7:45

TJEN MILLS POOL C.L.M

TDS 0.359 x 10<sup>4</sup>

pH 8.02

Temp 23.6

DO 90 90 90

max 90 90

250 224

125 194

8/4/95

Island Point

9:23 am depth gauge 0.00 m

Harvey mouth 40 swans in mouth

120 swans either

side predominantly west side

40 mountain ducks

80 pelicans

10 cormorants

6 caspian terns

55 yellow billed spoonbills

1 Royal spoon bill

2 loons

250 teal

1 Great white ibis

1 Great egret

(1314)

river mouth

4 Doves

10 Coot

500 teal

200 Black Duck

first sighting  
at 3:30

(1315)

Pelican Breeding Island

130 on east slope 30% young

50 adults on ridge were we rear

and observed last time 20 young

were with them

main breeding group had

moved up ridge towards the

west

colony has increased in size

square part from top  
to water 0.848

(116)

Long islands 6/4/94  
5:40 pm

swans 62  
 pelicans 25  
 yellow spoonbills 20  
 great egret 2  
 shelduck 20  
 teal 50  
 marsh heron 1  
 green heron 5  
 Black-winged stilt 10  
 white faced heron  
 1 little egret  
 black legs  
 black bill

William Bay NP (117)

Ramps Lake 10/4/95

swans 20  
 yellow billed spoonbill 6  
 white ibis 4  
 mallard duck 8  
 .coot 25  
 teal 20  
 black duck 50  
 little black heron 2  
 white faced heron 1  
 hairy headed grebe 8

18/4/95  
Duneraig 7.00 am  
Murray 7.00 pm

19/4/95  
Murray 7.15 am  
Allany 4.45 pm

20/4/95  
Allany 7.00 am  
Duneraig 6.45 pm

21/4/95  
Duneraig 7.30 am  
Woodvale 1.15 pm

- ① top + bottom salinity at star picket
- ② T+P+N at top
- ③ P.H star picket top temp top + bottom
- ④ 3x50m sweeps @ surface
- ⑤ depth.

28/4/95 8.30  
depth top  $\rightarrow$  water 0.89m  
bottom to top of water 0.54m

pH Top 7.89

Temp Top 19.0

Bottom 19.0

Calibration - Solution 7.01 read 6.95

Solution 10.01 read 9.78

Tried to calibrate meter read E4

28/4/95 3.00

crossover lake

little field comments

coot 4 + 2 brood 6 + 1 S2

grey teal 6 + 2 + 2  
coot 8

grey teal nest down (life)  
coot nest x 5

5 nests with 4 eggs black dots  
1 red tape (cloned) coot nest

coot nest 7 eggs 50m along  
3 eggs coot + 1 S1



was nest empty  
teal 3+1



(122)

Small Lemak north duck  
separate areas

2 groups

2/5/95

1st Phact 10:30 am

1 Km south of 2nd  
island. depth 0.47m

adult No. 1

chicks No. 1 + 2

(123)

2/5/95

ADULT 2 11:45 am

depth 0.48m

adult 2

chicks A+B+C

ADULT 3 12:10 pm

depth 0.49m

chicks

ADULT 4

depth 0.33m 1:50 pm

chicks

(124)

2/5/95

ADULT 5

depth 0.31 2.20 pm

4/5/95

0.97 depth top of stick to water  
0.44 depth from bottom to water level of stick

Standard location

buff 7.01 read 6.99

buff 10.01 read 9.75

ph at surface 7.78

Temp top 12.6 bottom 12.6

(125)

4/5/95

Cross over lake

ph 7.59

temp 15.7

Declivity top + bottom

total P+N top

depth 0.445 from top of star picket

(126)

26/4/95 Depn't woodch 13.45  
arriv 1 Kolgoshus 22.15

27/4/95 0830  
Bullard 22.00

28/4/95

(127)

2/5/95

2/5

(127)

12/5/95 pH Buffer test

calibrated with original

solution buffers

~~3.04~~

7.01

10.01

Expanded buffers were

3.87

7.08

10.18

9/6/95 Grosvenor Lake

1:30 pm

black duck 2

Loon 2+1, 3B, 6

only mud 2+1

whistler 1

(129)

Lake Bullard

Camp island  
9/6/95 2.45

depth 0.775 from top of stick  
pH 8.67

temp not working

cross over lake

pH 8.76 4.31

Temp 12.0

(130)

Lake Morrison 10/6/95

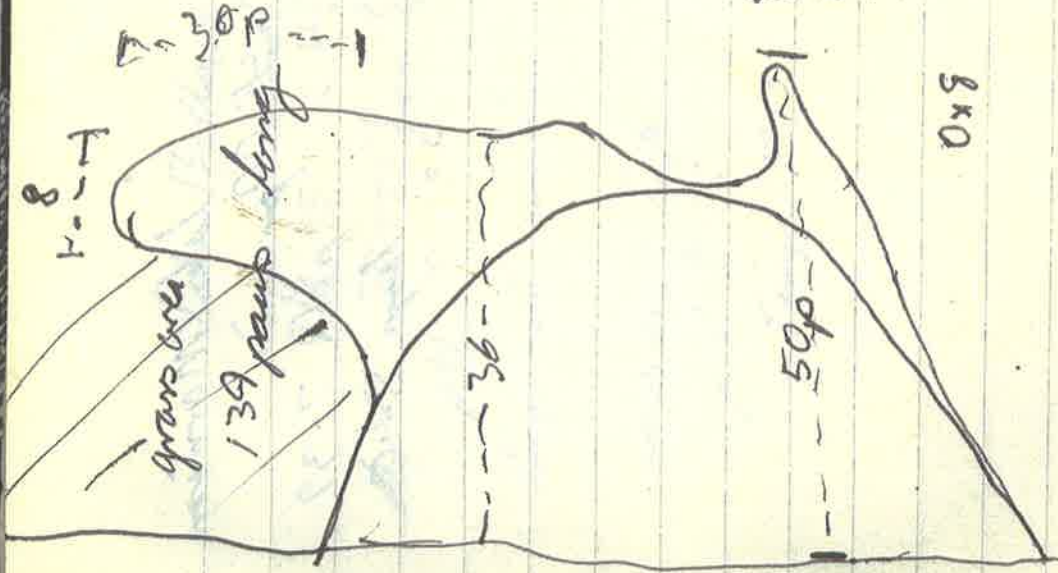
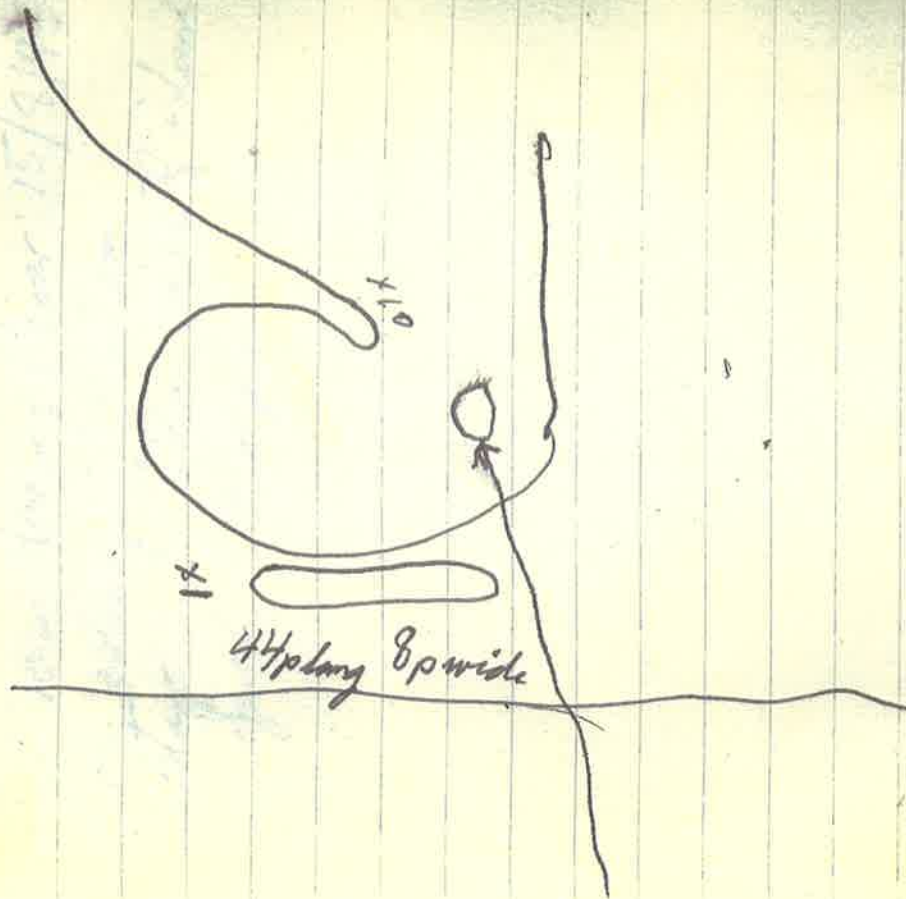
4.00 pm

pH 7.39

Temp 12.0



132



131

133

Start 10:45 Harvey River 15/8/95  
on estuary 6:30 pm  
Stop 50m north of island  
Finish 7:30 pm





134

HERBY RIVER

30/8/95

WED 8.15 am

5.30 pm

135

Ring KENSTON  
accdm. about

Gerry and me

check month card

take L.P.O.

(136)

Woodhead 7.30 | 11/9/95 8.45 pm

Thompson's lake

depth 0.97

temp 12.0

pH 7.8

Forrestal 9.45

depth 0.505

temp ≈ 15.0

pH 9.85

GIBB RD 10.30

depth 24.575

temp 17.0

pH 7.58

(137)

NINE MILLS LAKE

12.42 pm

depth 0.955

temp 20.5

pH 6.89

CLIFTON 1.30 pm

depth 4.26

temp 20.1

pH 7.83

HARVEY 2.20

depth 10.97

temp 17.2

pH ~~11.1~~ 5.53

138

11/9/95

EGRIST 3:12 pm

depth 0.35

temp 17.1

pH 6.67

7:30 Brossillon 12/11/95

longup 10:10 am

depth 0.105

temp 15.3

pH 7.58

TOWNSHIPPING 11:26

depth 3.34

temp 17.4

pH 7.65

139

2:30 pm

Brossillon

depth 0.86

temp 21.5

pH 8.14

DOBODERRY 3:50

depth 0.615

temp 17.2

pH 6.55

near quarry

not correct

note 15 mm below

low mark

LAKE LOUIS 13/1/95

11.45

mud duck 2 3<sup>or</sup> 1<sup>or</sup>  
goat 2 + 3 + 6 + 5  
ter 2 + 20 + 10 + 10  
black duck 2

pink ears 2 + 1 + 1 + 4 + 2

wilder gull 10  
- night heron

mountain duck 2 + pairs

grey teal nest 5 eggs

white face heron 4

leak dead 2 + 4

↳ moulting

GOBLE

pH 7.54

depth 1.18

Temp 12.4

invertebrates 50m sweep

lake loggie 50<sub>pm</sub>

note to side of LL #2

Pink ear 4 + 30

hoary headed grebe x 3 + 5 + 20

spoonbill 1 yellow B.

goat 10

swan 2

goat 30

10 subadult tern breeding plumage

(142)

3 eggs in nest

pacific heron x 2

gulls nest x 3 no eggs

pin card 19

teal 10

grebe 20

spoonbill x 2 nest too high

o pale nest only

2 mountain chick brood ♂

vilaver gulls 127

coot 200

Mud duck 50 ♀♀

pink ear 200

(143)

13/9/95

Lab Incheon 4.45

3 teal chicks stage 1-2, 2, 2+

6 silver gulls

Temp 17.5

pH 8.26

Spuril 6:00pm Incheon

Start 6:30am 14/9/95

eggs 8.45

depth 2.58

Temp 16.7

pH 8.52

GURSEL 12.40

depth 2.245

Temp 20.4

pH 8.01

(144)

CRACKERS 14/9/96

depth 1.75  
temp 17.1  
pH 7.75

WATERMELON 4.00 pm

depth 1.57  
temp 19.4  
pH 9.28

Bambusa 5.00 pm  
14/9/96

no gauges visible  
measured from water to top  
of star picket 39.0 cm  
at end of fallen tree  
on fence line on holding  
yards - temp 19.0  
pH 9.51

(145)

CHANDLER 5.45

depth 0.94  
temp 17.8  
pH 7.67

5 o'clock 15/9/95

depth 17.22 9.42 am  
temp 18.2  
pH 7.7.8

STANDERBUP 10.40

depth 44.99  
temp 19.8  
pH 5.09

147

CALIBRATION 1.5 PPK DK

146

0.0	0.1	246 PPM	20.5	1.5.1	236	20.2
11.34	0.2	"	20.6	11.55	"	"
	4.	"	"	2.1	"	"
	6.	"	"	2.1	"	"
	7.	"	"	1.1	"	"
0.5	0.1	246	20.5	2.0.2	250	20.2
11.41	0.2	244	20.5	12.00	"	"
	4.	244	"	2.5	338	20.5
	6.	"	"	2.0.21	238	20.4
	8.	"	"	1.1	238	20.4
1.0	1.1	"	"	1.2.2	220	20.3
11.47	2.	238	20.2	12.13	"	"
	4.	"	"	1.6	218	20.3
	6.	240	20.3	2.9.2	220	20.3
	7.	239	"	2.4	222	"
	"	"	"	2.6	"	"
	"	"	"	2.8	230	"

3.4	<del>2.8</del>	222	20.4	4.5	0.1	208	20.7
<del>2.5</del>	2.5	213	20.4	1:06	1.4	"	"
12.17	↓ 1.8	↓ "	↓ "	POST	HEIGHT	220.74	
<del>2.8</del>	2.8	213	20.4	Fish	33.8	CALCIBRATION	
12.23	↓ 1.8	↓ "	20.4	traps	0.1	27.2	22.1
3.0	3.4	212	20.3		.2	"	"
12.53	↓ 1.8	213	20.5				
3.5	4.8	"	"				
12.56	↓ 1.1	210	12.6				
4.0	1.4	"	20.6				
1.00	1.4	208	20.5				
	1.4	"	"				

Screepy Island

2.45pm - 150 mountain duck

- 20 swans

- 60 ducks

- 50 shell duck



Brown booby

Australian booby

wedge tail eagle

little eagle

~~sea eagle~~ sea eagle #1

Black breasted Kite

speckled duck x 4  
 grey teal  
 black duck  
 pint egg duck  
 hard head  
 plumed whistling duck  
 Diving whistling duck  
 little grebe  
 long headed grebe  
 great crested grebe  
 Darter  
 little black swan  
 grebe  
 " "  
 " "  
 little pied  
 Magpie quack  
 pelican  
 swan

mixed geese x 10  
 green pigmy goose x 2  
 great egret 500  
 white faced egret 10  
 pacific heron 8  
 spotted heron  
 little heron  
 whistling Kite  
 fork tailed kite  
 black falcon  
 whistled tern 50  
 gull billed tern x 6  
 carrion tern x 200 80 nests  
 little button quail  
 black tail native hen  
 coot  
 pied stilts

(193)

prairie hawk  
 red capped chatrel  
 red breasted chatrel  
 masked lapwing  
 straw necked ibis x 100  
 glossy ibis x 60  
 white ibis x 10  
 Brn. g. x 40  
 scarlet dove  
 diamond dove  
 white gull.  
 spotted pigeon  
 white pigeon  
 little cowbird  
 galah  
 / cockatoo  
 Budgerigar  
 Budgerigar

(194)

Barn owl  
 variegated wren  
 yellow tinted honeyeater  
 fairy martin breeding  
 tree martin

(551)

Harvey Estuary 19/10/95  
9.45 depth 0-15cm  
wind SE 25-30 knots

D

(156)

5	11.00	0.1	19.6	19.3
		.2	"	"
		.4	"	19.4
		.6	"	"
		.8	"	"
		1.0	"	"
6	11.06	1.1	12.75	19.0
		2	12.6	"
		4	12.80	"
		5	15.1	"
7	11.12	1	13.2	21.1
		2	13.1	"
		4	14.4	21.2
8				



CONSOLIDATED GAS 3804920

LAKE LOGUE  
DAVID

W.R.D. 122

LIEN

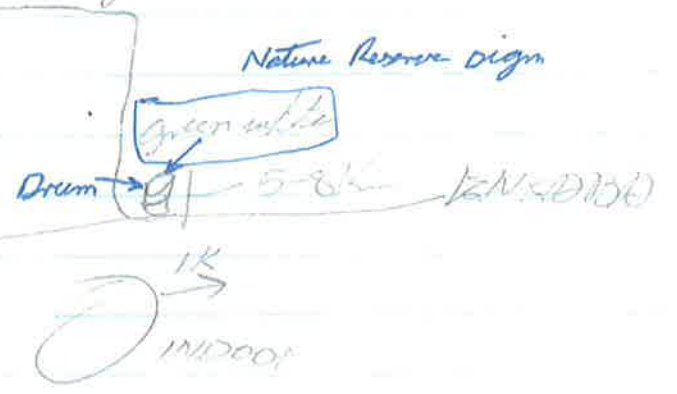
PANCON

Easton Northern

099 551106

W.R.D. 122

gas plant  
oil rig



CONSOLIDATED GAS 3804920

LAKE LOGUE  
DAVID

WARDRETE

LIEN

PANFON

Eastern Northern

099 551106

WARDRETE

gas plant  
oil rig

Nature Reserve sign

green white

Drum

5-8km

WARDRETE

