

Lake Ballard May '95

Waterbury



NOTE BOOK

No. 561

WATERBURY

#4

①

17 DEC '93

BLACK FLAG LAKE.

Mountain Ducks 1605

R. Dettmerells 1005.

all Coats out

Black Swans have gone.

water depth throw-out

c. 20 cms.

salinity = 27, ~~000~~ mS/m
= 135,000 mg/L⁻¹
approx.

Note:

by 5/1/94

Black Flag Lake was
completely dry.

2

MONDAY 10 JAN '94

Lake Wamawag :-

1x4 Greenshank

1x150 Grey Teal

water :- saline.

(3)

THURSDAY 10 FEB '94

ROWLES LAGOON w/-
PHIL SPENCER

open water birds
1x Grey Teal
few H.H. Grebes.

water depth at boiler
3.8 m. Water samples
taken

1x Black Swan
1x Coot

Creeks :-

Coots few
H.H. Grebe "
1x Black Duck

(4)

10/2/94

1x LP Cormorant

1+2 WFH

1x Whistling Kite

1+2 Hardheads

1+2 PE Duck

1x FRED red back patch

1x WTE

Food-out :-

1+3 PED + 1x Y

1x Peregrine Falcon

hunting 1x FRED

1+2 FRED

1+3 FRED

1x PED

1x 40 Mountain Duck

1x 100 Grey Tuck

1x FRED

1x 12 FRED

2+2 FRED ♂ ♀

5

10/2/94

1x PED

1x LP Cormorant

1+2 FRED

1x 4-5 PED

over fenseline :-

1x Grey Teal

1+2 Y B Spoonbill DB

1+2 WF Chat

1x Black Duck (C)

Coots (several)

HH Grebe (few)

1+2 LP Cormorant

1x Swan

1+20 Mountain Duck

1x FRED

1x3 FRED

1+2 PED

1x Black Swan

1x Black Duck

1x6 Grey Teal

6

10/2/97.

turn about :-

1x Wask Duck 9 + 1

Water level has dropped
2.5 m from index at
Nov '92.

open water :-

1x 100 PEDS

1x 50 mountain Duck

1x 4 Black Swan

few Loos.

depth on gauge 84 cm.

Carnage Lake 'overflow' :-

1+3 Black Swan

H.H. Grebe 1005

7

10/2/94.

Coots 100s

1+2 PED

few Grey Teal (seems.)

1+2 FRED

1+ Whistling Kite

Muddy & Clear Lakes
still joined at
'peninsulas'.

at. f. & RR levee.

1+30 Wood Duck

grazing E. side Rowles

8

March 4

1000 ft. Sand
1000 ft. Clay
(1000 ft. Clay, 1000 ft. Sand)
1000 ft. Clay
1000 ft. Sand

1000 ft. Sand
1000 ft. Clay
1000 ft. Sand
1000 ft. Clay

1000 ft. Sand
1000 ft. Clay
1000 ft. Sand
1000 ft. Clay

FRIDAY 4 MARCH 94

Lake Wana, Wey :-

1125 Mountain Jack

1100 Clay Teak.

only 5-10 cm water
left. Water sample
taken.

9

TUESDAY 29 MARCH '94

DUST ADJUTEMENT ZONE

RWH (c)

PCL (c)

PLP (c)

PBB (c)

PM:

SFA.

Mist. Raven (c)

Currawong (c)

Gbb (c)

Wbbill (c)

Pit traps #2 → 1x Wb

Pit traps #3 →

1x Menetia gregii

WFHE (c)

YTM (c)

Striped Pard (c)

1x Ctenophorus reticulatus ♀

dug from burrow.

YPHEC

WEDNESDAY 30 MARCH '94

1x BFC

Bellbird (c)

1x Wb Gbb

1x Wb Gbb (1st)

1x Wb Gbb

PM:

1x T. ignea ingosa road.

1x Ctenophorus Schomburgkii

1 pit trap

(10)

THURSDAY 31 MARCH '94

Pit traps #2

1x Ctenomys schomburgkii

Pit traps #3

1x Neohabrobracon ? Wassipalai

SVL = 33.4 mm.

SATURDAY 30 APRIL '94

Little Douglas picnic :-

1x3-4 H.H. Grobe

1x WFH

1+2 B.T. Natusi Hen.

(11)

THURSDAY 2 JUNE '94

Rod Higgins 266010

'West Lake' with

Doug Holt.

G.P.S. :- $30^{\circ} 51.31' S$

$121^{\circ} 00.38' E$

4-5 km W. of

mt Burgess

16005 Coots

c. 40-50 Black Duck

c. 50 H.H. Grebe

1+ WTE

WEHE.

c. 50 Black Swans

1+2 Mountain Ducks.

(12)

145 BF Plover

11 Willie Wagtail

RWB (C).

THURSDAY 25 AUG '94

ROWLES w/ GRANT

PHONK & COLE BURN.

TAPE TRANSCRIPT.

open water birds :-

1+21 Coots /

1+3-4 H.H. Grebe /

depths of water at border

3.65 m.

205 mg/L TDS.

1x 4 H.H. Grebe

mouths of CK :

1x 0.200 ditto. /

1+ Little Eagle ditto /

(13)

25/8/94.

Creek :-

1x2 Mountain Duck /

few Coots /

1x Black Swan /

1x3 Black Duck /

1x7 Grey Teal /

1x LP Cormorant /

1x2 FRED /

1x3 LP Cormorant /

Shelley Wack :-

1x9 Grey Teal /

1x Willie Wagtail /

SHE (C) /

SCHE (C) /

1x WST /

1x Whistling Kite /

Creek :-

1x Peregrine Falcon -
hunting off

open lake :-

200-300 Coots /

1x30 PED /

1x Black Swan + 2 /

few H.A. Grebes /

1x Whiskered Tern. /

1x2 Wood Duck - flying /

WED 28 SEPT. '94

my MONGER STA EXTN
INSPECTION w/- ROB
THOMAS

Wetland on wet dunes
at 31° 07. 73 S
121° 52. 06 E.

Wetland is claypan c.
600 x 100 m devoid of
littoral vegetation but
surrounded by low dunes
w/- Eremophila miniata
Maireana pyramidata
Hakoa preissii
Cratystylis subspinescens

(15)

28/9/94 (cont'd)

- 1x15 Mountain Duck
- 1x4 H.H. Grebe
- 1x2 Wood Duck
- 1x4 RW Avocets
- 1x0, 100 Grey Teal
- 1x40 Loos
- 1x3 Black Swan

on a smaller wetland

S. of here :-

- 1x4 H.H. Grebe
- 1x2 Wood Duck
- 1x3 Mountain Duck
- 1x40 Grey Teal
- 1x3-4 WW Wren
- 1x Eww
- SHE & WFHE (C).

Elsewhere in the
Goldfields is very dry -
so these records are
of interest.

(16)

SUNDAY 20 NOV '94

LAKE DOUGLAS :-

1x Greenshank

1x BF Plover.

FRIDAY 25 NOV '94

ROWLES LAGOON

w/- NADINE SLADE

ROBYN CAHILL.

Dams

1x Pacific Black Duck!

1x SHE /

1+7 H.H. Grebe. /

2.4 w at boiler

230 mg / l⁻¹ TDS.

1+3 WTE /

8b 1+500 Coots CK moulting

8b 1+4 SN Ibis in dead tree

Creek :-

(17)

25/11/97 (cont'd)

1x Little Eagle /

1x4, 1x2 Grey Thal /

many 50-100 Coots /

1x40 H.H. Grebe /

1x Mute Duck. /

1x2 Wood Duck /

1x Green Heron. db /

at boat launching site

1x4 Mountain Duck /

1x12 PED /

1x LP Cormorant. /

YTM5 /

5 nested Pond /

W. Wagtail /

WST /

1x4 WTE. /

1x6 Mountain Duck /

1x LP Cormorant. /

1005 H.H. Grebe /

1005 Coots. /

1x WFH. /

1x Willie Wagtail nest

w/- eggs. db

RC Robin /

SCHE /

Brown FE /

Kingfisher ? RR. ?

1x2 ? Freckled Duck. ?

(18)

THURSDAY 29 DEC '94

Wist Lake W. of
mt Burgess w/-

Doug Holt & Greg

1x2 RN Avocet

1x2 Spar-winged Plover

1x WTZE

1005 Grey Teal

50 Black Duck

few Wood Duck

1x Grebe

Water level v. low

c. 20 cm max.

most of lake bed

is inundated

4.89 ms/cm

= 4890 μ S/cm

= 2445 mg/l TDS.

1x Mountain Duck

1x9 Emu.

This wetland has
had water in it
since March '92,
or possibly Dec '91
and has maintained
relatively low salinity

(19)

SUNDAY 12 FEB '95

HANNANS LAKE.

Filled 3/2/95 after
mm rain in
 $\frac{1}{2}$ hour in Kal/Boulder

Water is slightly more
than ankle deep
over 75% of the
lake

conductivity 40.6 ms/cm
= 20,300 mg/L TDS .

C. 20 Mountain Duds

C. 50 Grey Tuck

Wlebill's

SCH.

SATURDAY 25 FEB '95

Lake Douglas

1x5 Grey Tuck

385 ms/cm

= 192.5 mg/L TDS .

(20)

TUESDAY 28 FEB 95

Lake Arrow filled on
27/2/95 following
160 mm in Katoorika

surface sample

Kiree deep

310 $\mu\text{S}/\text{cm}$
= 155 $\text{mg}/\text{L TDS}$

bottom sample

Kiree deep

322 $\mu\text{S}/\text{cm}$
= 161 $\text{mg}/\text{L TDS}$

water is reddish
wind is churning
water (photo)

28

HOBART

Heobatrachia

Rana palari - catfish
abundantly

lake is 15 x 4 km

restroom through

to forest - under the
road.

Cr. ...

...

28 FEB 95

(21)

195

SUNDAY 6 MARCH

Lake Arrow

Installed depth

gauge . 625 m

Note water level
has dropped c. 10
cm since max.

water is still slowly
flowing thru culvert
W \rightarrow S.

surface at gauge :-

443 $\mu\text{S/cm}$
= 221 mg/L TDS.

bottom at gauge :-

462 $\mu\text{S/cm}$
= 231 mg/L TDS.

1x Mountain Duck

flying over.

N/C other waterfowl.

(22)

THURSDAY 7 MARCH '95

Regional frogging at
Lake Arrow. Air
temp at ground level
18°C.

Nesohatrachas Kueapalan
calling prominently.

Two collected calling
from inundated

Italosarcia scrubs

#1 SVL = 40 mm

#2 SVL = 38 mm.

One other on dry soil
surrounding lake.

'Pea' size tadpoles
were present in the

water.

N. sutor also possibly
heard.

FROGS FROM
LAKE ARROW: -

R 127342

R 127343

Nesohatrachas Kueapalan
in WAM.

(23)

FRIDAY 10 MARCH '95

Rowles Lagoon w/-
Phil Spencer.

depth near boiler
(marker missing!)

= 5.4 m.

Cond. = 230 μ S/cm

= 115 μ S/l-1

Open Lagoon :-

1x Mountain Duck /

1x2 BB Duck. /

Nil in CIC

Inundated woodland

3x2 GT /

1x2 } Coot /

1x3

1x2 Little P. Corm. /

1x5 GT /

1x Whistling Kite /

1x2 HH Grebe /

Ret. along CL - :-

1x2 PED. /

open surface :

1x5 Black Duck. /

Lake Arrow :-

60 cm at
depth gauge.

Euc. leptopoda

Phobosium canaliculatum.

* *Acani coolgardiensis*
Shrubland

Euc. cf. trivalvis

Eremophila pustulata

Prostanthera grayalliana

Euc. pustulata site

Euc. trivalvis 10% - 30%

1 *Triodia*

Acani acuminata

50 - 100 plants.

v. l. brown loam sand.

SUNDAY 12 MARCH '95

Lake Arrow: -

depth at 'gauge' 59 cm.

surface sample at

gauge = 610 μ S/cm

= 305 mg/l TDS.

temp c. 30°C

bottom sample at

gauge = 610 μ S/cm

temp c. 27°C.

1+2 Mountain Jack

1x17 GT.

few Shield Shrimps plus
many red cladocerans.

(25)

12/3/95

Saline marsh 'N' :-

1 x 7 Wood Duck.

MONDAY 13 MARCH '95

KURRAWANG N.R.

Frogging at gravel pit
off western B.D.Y.

temp. $22^{\circ} - 24^{\circ} \text{C.}$
at ground level.

tape recording made.

Pseudophryne occidentalis
calling abundantly from
moist leaf litter edge
of pools. Adults seen,
tadpoles in water.

Also egg masses in
moist leaf litter.

No other spp. calling

1 x Heteronotia binoc leaf
litter under Jaw.

(26)

MONDAY 13 MARCH '95

LAKE DOUGLAS.

temp $15-21^{\circ}\text{C}$.

Neobatrachus ? Kunapalan

calling from inundated

Melospiza shrubs

Also Pseudophryne

occidentalis.

tape recording made

SUNDAY 19 MARCH '95

LAKE ARROW

depth of gauge 52 cm

Secchi 5 cm.

top sample :-

920 $\mu\text{S/cm}$

= 460 mg/l TDS.

temp = 24°C

bottom sample :-

930 $\mu\text{S/cm}$

= 465 mg/l TDS

temp = 23.4°C .

coll. invert sample.

The first wind bank

(27)

19/3/95.

has emerged now

1x8 RC Doherty

1x2 ET

1x2 Mountain Jack

TUESDAY 21 MARCH '95

Rowles Lagoons

Nematodes ? Kuapalari

SUL = 45 mm

SUL = 50 mm

SUL = 38.5 mm

SUL = 43.0 mm

SUL = 39.0 mm

SUL = 42.0 mm

Black Oak Swamp :-

SUL = 43.0 mm

= 34.5 mm

= 36.0 mm

= 35.0 mm

= 37.0 mm

= 36.0 mm

= 35.0 mm

= 39.0

+ temp.

20°C.

(28) 21/3/95

Rowles Frogs :-

39.0 mm

42.0 mm

40.0 mm

39.0 mm

36.0 mm

Frogs From
Rowles Lagoon

R 127340 db

R 127341 db

Neobatrachus kumaleni
in WAM.

FRIDAY 14 APRIL '95

Lake 30 Km N. Norseman.

1x10 WFH

1x0.30 Mountain Duck.

1x0.50 Grey Teal


incl. 1x2 + 7/8 Ducklings.

few Wood Duck.

1087 μ S/cm

= 543.5 mg/l TDS.

many, many *Conchostracans*.

? *Limnodynastes* sp.  red
pairs in conjunction spot.

at. adjacent Lake Cowan

salinity = 74.5 mS/cm

= 37,250 mg/l TDS.

many, many Brine Shrimps

(cont'd)

342 Mountain Duck's.

SATURDAY 22 APRIL '95

Lake Arrow :-

top sample 1967 $\mu\text{S}/\text{cm}$
= 983.5 $\mu\text{S}/\text{cm}$
20.4°C

bottom sample 1891
temp 19.7°C
= 945.5 $\mu\text{S}/\text{cm}$

depth at gauge 50 cm
Secchi 40 cm

1x10 RN Anole

2x2 MD

1x2 GT

1x2 W/FH

1x SN Ibis

1x3 H.H. Grebe

28A!

28/4/2014

(29)

22/4/95 (cont'd)

4 x nests

2 x c/4

1 x c/3

{ 1 x c/4 formerly :-
2 x fledglings
1 x egg
1 x missing

31 APRIL '95

Lake Douglas :-

MIL.

MONDAY 1 MAY '95

Lake Arrow :-

2 x 2 MD

1 x c. 20 Wood Duck

1 x 7 WFH

1 x 8 RN Duck

few H.H. Grebe & 10

few GT & 10

1 x Egret (large w/-

yellow bill & black legs)

1 x 2 Black Swan.

Lake Ballard May '95

(30)

MONDAY 1 MAY '95

Ex Kal 1.30 PM.
to join Jim Lane & Alan
Clarke at Lake Ballard

O.O. Joodanaya HST

Jamie Wager

Clarrie

5.2 Black Tank Well

115 goats.

16.4 Jasper Well

20.4 Twin Hills Well

24.0 fence 4 S.

26.6 first lake.

num. Coats w/- chicks (2).

1x2 P.E. Duck.

flw GT (C). w/- ducklings

1x9 WFH.

1x Great Egret.

Arrive island at :-

29° 28.80' S, 121° 02.00' E.

6.00 PM.

TUESDAY 2 MAY '95

Viewing Island at :-

29° 28.00' S, 120° 59.00' E.

1x Chenophorus salicivorus

Lunch Island

Cs. cristata on gypsum

113 BFWS

142 WF Clat

11 Little Grew

1x E. W. 155 old

nest)

Lunch island :-

120° 57.00' E 29° 26.50' S

1x Silver Gull on

Lake Ballard

(31)

Camp 29° 28.80' S
121° 02.00' E.
Island birds :-

142 WB Swallow

142 WF Chats

Low RE Dotted Larks

142 Pipits

Spent the day on the
lake collecting Banded
Stits, adults & juvs
for stomach contents.

Also PM banding
and leg 'flagging'.

Stits.

46 banded

28 'flagged'

Max shade temp
today 16°C.

WEDNESDAY 3 MAY '95

Min 0' height = 8.5°C

Max today = 16°C

Camp island birds

(could)

old E-mu tracks.

rabbits are present
(also on most islands
it seems).

Cold overcast morning
w/ - easterly wind.

Spent morning banding
& flagging Stits on
Ballard.

(32) 3/5/95 (cont'd)

'Tripod' Island at:

29° 25.25' S

120° 52.90' E

lunch here

Echidna scratchings

4 shit. Rabbits here
too.

Jacksonia foliosa &

Euc. striatocalyx here
too.

WFHE } (c)
YTM

Collected aboriginal grinding
stone.

Collected *Pinetia* sp

low spreading shrubs to
60 cm, yellow flowers,
grows on gypseous soil.

other 'lake' birds today

c. 150 GT

1x Aust. Shoveller

1x Peregrine Falcon

2x1 WTE

lake birds 2/5/95:

Saw Little Crows

3x1 WTE

1x3 Brown Falcon.

P.E. Duck = Pink-eared D

GT = Grey Teal

WFH = White-faced Heron

BFWS = Black-faced Wood
Swallow

WF Chel = White-fronted Chat

WB Swallow = White-backed
Swallow

Camp Island plants :-

Cas. cristata

Ereophila oldfieldii

Acacia etc. oswaldii

Holoserice sp.

Atriplex sp.

Grevillea sarissa

Franklinia sp.

occ. Ereophila miniata

RC Doherty = Red-capped D.

WFHE = White-fronted
Honey eater

YTM = Yellow-throated
Miner

WTE = Wedge-tailed
Eagle.

THURSDAY 4 MAY '95

Min & night = 9°C.

Visit first site to
measure nest diameters
& nest spacings.

Pack up & leave island

ALC No. S35 CC 16 JAL.

Jeebamya Homestead

23" rain so far

Elis Ylow = 575 mm!

Ret Kalgoorlie 4.30 PM.

(34)

THURSDAY 4 MAY '95

Canebrass Swamp :-

1x2 MD

1x3 wood stake

water conductivity

= 288 $\mu S/cm$

= 144 mg/l TDS.

SUNDAY 7 MAY '95

LAKE ARROW :-

depth = 45 cm

secchi = 38 cm = bottom

top temp. 25.4 $^{\circ}C$

17.6 $^{\circ}C$ 1470 mg/l TDS

bottom temp. 25.6 $^{\circ}C$

16.9 $^{\circ}C$ 1480 mg/l TDS.

first 'island' :-

ABD nest w/ 1 egg

chick raised.

2nd 'island' :-

3 nests

i) 4 eggs

ii) 3 eggs (1 chick alive)

iii) 2 eggs (2 chicks alive)

(35)

7/5/95

LAKE ARROW (cont'd)

1x9 RW Avocet

1x4 H.H. Grebe

2x2+1 MD

1x19 GT.

0.3 g dry wt

WHITE FLAG LAKE

at Eva Bandera pipeline

comsowing :-

2x2 MD

1x2+1 Black Swan

1x2 WF Heron

10.67 mS/cm

+temp = 17.6°C

= 5,385 $\mu\text{g/l}$ TDS.

Water is very, very clear

Eastern end of lake :-

1x14 GT

c. 20 MD most are

pairs.

Northern end of lake :-

1x2 MD

1x2 Black Duck

cond. 10.49 mS/cm

= 5295 $\mu\text{g/l}$ TDS.

temp = 17.3°C

BLACK FLAG LAKE

Southern end :-

c. 1,000 GT

2x2 MD squabbling on

lake? nest on shore

(36)

7/5/95

Black Flag (cont'd)

Cond. 5.61 ms/cm
= 2805 ug/KDS.

Water very, very clear.

TUESDAY 9 MAY '95

AERIAL SURVEY OF
LAKE GOONGARRIE
w/ - ABC

C. 50 only Banded
stilts on Lake
Goongarie - no evidence
of breeding.

(37)

SUNDAY 14 MAY '95

depth of gauge = 43 m

secchi = 35 cm*

top sample = 3.00 ms/cm
= 1,500 mg/l

temp = 15.2°C

bottom sample = 2.85 ms/cm
= 1425 mg/l

temp = 14.7°C

1x2 Black Swan /

1x 60-70 GT /

1x2 MD /

1x2 RC Bittern /

1x10 RN Merganser /

1x2 H.H. Grebe /

2x2 WFH /

1x SN Ibis

Short Island

1x RN Merganser w/ ABD.

Long Island & RN Merganser

1x C/2 } all ABD.

1x C/2 }

1x C/4 }

2x H.H. Grebe 'floating'

host w/ white; covered'

eggs 1x C/3

1x C/1. 'ABD.

* depth of bottom.

0.2 gms dry wt.

(38)

TUESDAY 16 MAY '95

Lake Walton peripheral
claypan at :-

30° 55. 20' S

120° 03. 20' E

1x3 Hooded Plover

ind. one juv.

depth 3-4 cm

TDS 62,000 mg/l

temp = 22°C

brine shrimps here.

Lake Walton itself :-

1x10 + 1x4 Mountain

jack most paired

off some squabbling

1x5 GT

1x2 Hooded Plover

two TDS samples on
Lake Walton :-

#1 39,000

mg/l

#2

43,000

mg/l

(39)

THURSDAY 25 MAY 95

Little Arrow

top sample = 3.31 ms/cm
= 1655 $\mu\text{g/l}$
temp = 14.4°C

bottom sample = 3.37 ms/cm
= 14.2°C.
= 1685 $\mu\text{g/l}$

depth of spurge = 40 cm
sechli w/r
(bottom at 30 cm)

1 x C. 60 GT

2 x 2 MD

1 x 23 + 1 x C. 5 RNA

1 x 1 Banded stilt

1 x 2 RC Plover on
shot island w/-
1 nest C/2.

1 x 8 RC Plover on
'long' island

perhaps nesting?
1 x (C/4) } RNA nests
1 x C/2 } HBD.

few H.H. Grebes c. 10
1 x 2 WFA

1 x Black Duck E.
side of causeway.

dried plankton
sample < 0.1 gm

40

SUNDAY 28 MAY '95

SILVER DAM SWAMP
ON GODDARDIE STN.

1x c. 6/7 Red-necked Loons

3x2 Pink-eared Duck

1x 3-4 Grey Teal

1x c. 20 Wood Duck

1x WFH.

conductivity = 260 $\mu\text{S}/\text{cm}$
= 130 mg/l

1x Mountain Duck

flew over HST last
night

Wet 1.0 > 2.0

Lake Coongarra feeder CK:

120° 09' E
36° 00' S.
187.6 $\mu\text{S}/\text{cm}$
= 93,800 mg/l TDS.

Lake Coongarra main
water body:

126° 10' E
30° 02' S approx.

4-5 cm deep

70.3 $\mu\text{S}/\text{cm}$
= 35,150 mg/l TDS
1x2 Mountain Duck here

Canegras Swamp

382 $\mu\text{S}/\text{cm}$
= 191 mg/l TDS.
NIL water south.

(41)

FRIDAY 2 JUNE '95

LAKE 30 Km N.

No SW water :-

3x2+1 MD

1x9 WFH

1x C. 50 GT

w/o binoculars!

water :-

1440 $\mu\text{S/cm}$ = 720 mg/l TDS.

temp = 17.2°C.

clam shrimps + Nardoo
in water.

4 JUNE '95

CALLACARRUP

RAINWATER :-

94.4 $\mu\text{S/cm}$ = 47.2 mg/l TDS.

DRY WATER :-

1000 $\mu\text{S/cm}$ = 500 mg/l TDS.

CREEK WATER :-

22.8 $\mu\text{S/cm}$

11.4°C

= 11,400 mg/l TDS.

(42)

5 JUNE '95

Lake Cowden sample
point 45 for 14/4/95. :-

89.2 ms/cm
= 44,600 mg/l TDS
temp = 15.3°C.

brine shrimp present.

WATER FOWL

#5.

①

FRIDAY 9 JUNE '95

LAKE BALLARD

W/ GRANT PEARSON
& ALLAN CLARKE

Crossover Lake :-

3x1 Whisk Duck 2
few Coots in jaws
1x Whistling Kite
1x2 Black Duck
1x Little Grebe
2x2 BF Plover.

Camp Island :-

1x2 Little Crow
breeding site #1
1x2 + 1 RC Plover

(2)

Saw W.W. Wrens

ind ♂

1x7 RN Ancoats

1x2 Aust. Shearwaters

1x2 Grey Teal

1x2 Banded Plovers

1x6-7 W B Swallow

1x Pipit

Lake Ballard :-

1x6 + 1 Grey Teal

Cross-over Lake

morning birds :-

SCHE

Bellbird

Mudlark (c)

PBB

RC Robin (c)

Little Crow

SHE (c)

1x4 Crested Pigeon

WFHE (c)

Willie Wagtail (c)

Pollard Curlew (c)

1x YTM

BHE (c) few

1x Welcome Swallow

1x PLP

1x House-field B. Curlew

③

SATURDAY 10 JUNE '95

HST:

Mundayari

near

goats

1x15

Pack up camp, leave
c. 10.00 AM.

Teedamya - no one here.

Donkey Rocks RR via
Morapoz HST :-

3x2 } RR
2x1 }

1x Ewin

1x2 w.f.

Tankins 'new'
road to Bruce.
Rock Dam

1x2 + 1x5 w.f.

1x2 RR

LAKE MARLOW

peripheral clay pan
at :-

1x2 GT w/ B/5

1x2 GT w/ B/6

1x BW Stilt

1x2 Little Grebe

c. 20-25 H.H. Grebe

④ 10/6/95 LAKE

Camp on S. side
Lake Marazion at :-

121° 32.90' E

29° 47' 00" S.

490 m (GPS.)

3.00 - 5.00 PM.

Argo on lake to
island at :-

circa 15,000 Banded

Shit. Adults w-

chicks. Adults

but number chicks

c. 10 : 1 ... 8

Adult pairs

copulating.

MARMIAN

Also :-

1x Silver Gull

1x2 Aust. Shelduck

1x 6-7 Grey Teal.

Peripheral claypan :-

7.64 mg / and

= 3,820 mg / L TDS.

Temp = 12.2°C.

ct

Lake marazion :-

48,200 mg / L TDS

Temp = 7.1°C.

(5)

SUNDAY 11 JUNE 95

Campy birds :-

PBB

GAB

SCH

144 YTM

143 Galahs

1215 goats

kw Little Crows

96.4 ms/cm
7.1°C

90.2 ms/cm
10.3°C
4-5 cm.
9.40 AM.

92.0 ms/cm
11.3°C
2-3 cm
9.53 AM.

91.5 ms/cm
12.5°C
2-3 cm
10.18 AM

⑥ 11/6/95

86.1 ms/cm

12.1 °C

5 cm

10.36 cm

90.6 ms/cm

11.7 °C

10-11 cm

10.53 AM.

Wt's Banded Stilt
chicks :-

109 gm = 99 gm

94 gm = 84 g

85 gm = 75 g

91.3 ms/cm

14.3 °C

10 cm

11.44 AM.

89.8 ms/cm

16.6 °C

10 cm

12.52 PM.

129 gm (gross)
1st & 2nd? 3 weeks old

120 gm (gross)

103 gm (gross)

⑦

11/6/95.

LAKE

90.8 ms/cm

17.0°C

10 cm

1.51 PM

90.5 ms/cm

17.9°C

8 cm

2.22 PM.

92.4 ms/cm

17.6°C

10 cm

2.56 PM.

MARMION.

Island # 1 at :-

121° 31.60' E

29° 46.40' S

fresh dog tracks

145 BFWs

original granite stones

-ve B.S. breeding

Island # 2 at :-

121° 33.30' E

29° 45.60' S

Fox tracks

11 GRAB (C)

Kangaroo shot (plenty)

rabbit scat & diggings

fresh mo tracks.

⑧ 11/6/95

Collection site :-

92.7 ms/cw

14.6°C

15 cm

4.15 PM

Sol Calu - 0239

7.00 PM. 5270.

7.05 PM. 5833

7.10 PM 8070.

WLR 182.

MONDAY 12 JUNE 95

0.0 Ex Camp 7.15 AM

1+2 RR

1+3 M.F.

} untag

3.6 Branc Rock Dam.

14.3 TWO Tanks

1+2 M.F.

1+2 R60.

18.9. Dowlley Rocks Rd

A S

1x M.F.

33.2 Pianto Rd A W.

1x1 RR

2x3 M.F.

1+2 +1 Enn

⑨ 12/6/95.

Wetland at 58.0 Km

1x16 GT

1x H.H. Grebe

1x2 PED w/ c/2

150.1 μ S/cm

temp = 9.0°C.

2x1 RR

93.6 Kat - mangier

Rd (Yarri Rd
sign)

THURSDAY 15 '95

Lake Miranda :-

1x10 W. TERN

1x18 Black Swan

1x1 c/4

1x2+1 GT

1x1 B/5

c. 200 Coots

few Shelduck.

1x5+4+4

RL Doherty.

few Grebes

? H.H. / Ant.

8.58 μ S/cm

= 4,290 μ g/l TDS

(10)

Blue Gum Pool:-

1x Pacific Heron
windy lake.

JUNE

WEDNESDAY 14th '95

Lake Raeside X-ing
25.2 ms/cw
= 12,600 ms/l TDs

Few Grey Teal
few Wood Duck.

THURSDAY 22 JUNE '95

ROWLES LAGOON
w/- GEOFF YOUNG.

launching ramp:-

1x W. Eagle (C) /

1x Little Eagle ?

1x SHE /

Tree Martins /

Pallid Cuckoo (C) PB /

mask Malle ♂♂ /

(lighting) /

1x 3-4 Grey Teal. /

few Coots

Depth near boiler

4.65 m.

⑪

22/6/95.

Cond 307 $\mu\text{S}/\text{cm}$
 = 153.5 mg/L TDS.
 Temp 12.3°C.

open water:-

few Coots
 2x1 Musk Duck + 1
 1x CP Cormorant
 on Stag.
 1x2 WFM ditto
 1x Welcome Swallow

Grass (Shrub - out
 num. Coots only.

open water surface:
 1x2 Musk Duck

ROWLES

1xc. 10 Coots

1x3 LP Cormorants

Fringing Thicket:-

1x3 Grey Teal

1x2 Pacific Black Duck

launching ramp:-

1x Willie Wagtail

1x WST

1x2 PLP.

SCHE (C)

1x Magpie

1x2 SHE.

To carriage on flow:

1x50 Goldch

1x3 M.F.

(12)

22/6/95.

Lake Carnage

num. Grey Teal

1+2 Black Duck

1+2 Shelduck

1+2 M. f.

1x1 Freckled Duck

? or now-brooding ♂

frack under water

1+2 Grey Teal w/- c/6

1x Hard head ♂

few Coots

1x whist Duck ♂

1+2 Wood Duck

1x2 + 1x3 Black Swan.

ROWLES

Rowles edge :-

1+2 Hard head ♂, ♀

1x Grey Teal w/- c/5.

driving out :-

1x2 } M. f.

1x3 }

1x2

Ret. Kal 3.30 PM.

(13)

SATURDAY 24 JUNE '95

LAKE ARROW

depth gauge 38 cm
= 28 cm secchi
quite clear.

surface = 4.10 ms/cm
= 2050 $\mu\text{g/l}$
temp = 14.1 °C

bottom = 4.16 ms/cm
= 2080 $\mu\text{g/l}$
temp = 13.7 °C

2x2+1 Mountain Duck

1+c. 30 Grey Teal

1x11+1+2 BW Stilt

1+c. 20 RC Dottrel

1x c. 12 H.H. Cuckoo

1x4 RW Avocet

(on shore - have
left mud-bank).

Ducks are now
bottom feeding in
shallow, clear water
w/ light algal
growth.

plankton sample
appears A ? green
ostracods dry wt =
0.2 gm.

(14)

THURSDAY 29 JUNE '95

LAKE WANNAWAY
w/- PAM.

3.43 ms/cm
= 1715 $\mu\text{g/l}$ TDS
temp = 11.7°C

water v. clear
water up to fence

1x 21 Coots
1x2 Grey Teal
Mountain Duck (c)

v. low water level!

SATURDAY 8 JULY '95

Lake Cowan sample
point

Cond. = 114.5 ms/cm
TDS = 57,250 $\mu\text{g/l}$
temp = 16.5°C

1x Mountain Duck
Strong, N. wind

Lake 30 km N. Norseman.
Cond = 160.7 ms/cm
TDS = 804.5 $\mu\text{g/l}$
temp = 16.2°C

Depth = 5-10 cm
1x Mountain Duck
1x3 WFT.

(15)

18 JULY '95

LAKE RAESIDE
X-ing (sample
per Fred Selby)

37.8 ms/cm

= 18,900 $\mu\text{g}/\text{L}$ TDS.

SATURDAY 29 JULY '95

LAKE ARROW w/- Perry

1x31 } BW skit
1x17 }

1x15 RN Annet ✓

1x2 Black Swan ✓

ind. one on nest

1x MD + 1x2. ✓

depth at gauge = 35cm
actual depth = 25cm

top sample

5.40 ms/cm

= 2700

Temp = 12.7°C $\mu\text{g}/\text{L}$.

(16)

bottom sample

= 5.50 m/s/cm

= 2750 m/s/h

temp = 12.1 °C

TUESDAY 1 AUG 95

ROWLES / CARWAGE
w/ GRANT

Carriage #1

cont = 357 m/s/cm

temp = 13.1 °C

depth = 3.1 m

1x2 GT +1

1x2 BB Duck ♂, ♀

1x H.H. Grebe +2

1x WSK ♂

Carriage #2

? 1x2 H.H. Duck

? 1x5-6 H.H. Duck

1x2 H.H. Grebe

(17)

1/8/95

CARNAGE

1x20 Coots.

depth = 2.8 m

368 μ S/cm

temp 13.5°C.

Carnage # 3

depth 3.0 m

Cond. = 389 μ S/cm

temp = 13.1°C.

1x 40-50 BB Duck

1x WASK ♀

1x4 Coots

1x Whistling Lark

1x2 H.H. Grebe

Carnage # 4

391 μ S/cm

12.9°C

depth = 3.4 m

1x25-30 H.H. Grebe

1x3 BB Duck DB

1x2 Coots

Pallid Cuckoo (c) DB

WASK (c).

Transit :-

2x c.5 HH Duck

1x2 GT

Low Coots

(18)

1/8/95 CARWASE

Carnage #5

1+2 Aust Shelduck ♂,
♀ w/- 5+3 ducklings DB

1x 40-50 Loos

Cond. = 363 $\mu\text{S}/\text{cm}$

Temp. = 13.7°C

depth = 1.2 m

Carnage #6

Cond. = 372 $\mu\text{S}/\text{cm}$

Temp. = 14.1°C

depth = 50 cm

hums. Loos

2x2 GT + 4

1x Whistling Kite

transit :-

1x P Black Duck

Clear Shallow water.

1x 20-30 GT

1x 8 Aust. Shelduck

1+2 P. Black Duck

Carnage #7

1x Mountain Duck +1

1x c. 100 GT

1x H.H. Collie

Cond. 371 $\mu\text{S}/\text{cm}$

Temp. 14.7°C

depth 80 cm

1x Black Swan

① 1/8/95 CARNAGE.

144 Coots

transit :-

num. Coots

few Aust S. Duck

142 Black Swans

Camp at Carnage

overflow :-

RWB

Willie Wagtail

Bird walk edge
of Carnage :-

1x SHE

Willie Wag.

1x Musk D ♀

1x RWB

1x GT + 1x10

2x2 Hardhead

Striated P. (c).

Coots num (c).

1x PLP.

1x2 RR

back thru Bluebush :-

2x2 WW Wren ♂♂

in Sage

1x Housefield B. Cuckoo ♂♂

(c)

(20) 1/8/95 CARNAGE

magpie (c)

WEDNESDAY 2 AUG 95

Rowles Lagoon

1+2 WWSK Duck ♂ & ♀ /
at ramp.

also 3 juv. ♂♂ 20
can't or won't fly
+ 1+2 ♂♂

1+2 L P Corm. /
w. side of Lagoon
punching in tree

Rowles #1

Boil 4 site :-

Cond. 328 μ S/cm

temp = 10.7°C

depth = 4.9 m

(21) 2/8/95 Rowles

1x44 Blue-billed
Ducks + 21

transit :-

1x3 Hard head 288

1x BB Duck.

1x2 Coots.

N.B. BB Ducks
do have white
brims!

Rowles #2

mouth of CK :-

1x3 Wusk 8, 9, 8

1x2 Coots + 1 + 2

1x Willie Wagtail

depth = 3.9 m
Cond. = 324 μ S/cm
Temp = 10.9°C.

1x2 Wusk Duck ♂ + ♀
1x WFT (C)

transit :-

1x5 + 1 H.H. Duck
(flying).

prob. white bellies!
1x Wusk ♂

Rowles #3

and at bottom CK :-

Cond. 289 μ S/cm

Temp. 11.9°C

Depth 1.9 m

(22)

2/8/95 Rowles

1x3 Coots /

Grey Teal (c) /

WST (c) /

SHE (c) /

Willie Wagtail (c) /

Mudlark (c) /

Pallid Cuckoo (c) /

transit :-

1x3+1 H.H. Duck /

3x1 Coot /

1x P Black Duck /

Rowles #4

flooded woodland

Cond. 228 $\mu\text{S}/\text{cm}$

Temp. 11.6°C

depth 30 cm

1x Musk D (c) /

num. Coots (c) /

transit back

to Rowles :-

1x5 GT fl. /

Rowles #5

westernmost ski marker

Cond. = 302 $\mu\text{S}/\text{cm}$

Temp. = 12.3°C

depth = 4.1 m

(23)

2/8/95 ROWLES

1x LP Corn

1x7 H.H. Duck fl.

Cup of tea at
'old' camp :-

1x2 WTE

Striated Pard. (c)

YTM (c)

1x Crested pigeon

Magpie (c)

plant assessments in
welcome Swallow (few)

PLOT (fence?)

quadrat #1.

Yellow Asteraceae (abundant) :-

120 c. 90% all

all germinants < 3 cm.

Grass A = 5

Abgham Thrush = 1

(dead).

~~very bright~~

Purple H. Asteraceae 1

(24)

FENCED

quadrat #3.

wild radish 1

purple Asteraceae 11

grass 'B' IIII IIII

grass 'A' IIII III

yellow asteraceae

adult 11

germinal 400-500 est.

Salsola Kali 1 (dead)

Spear grass 1

FENCED

quadrat #5

grass C 11

Spear grass adult 5

germ. C. 100

grass 'B' C. 30

grass 'A' IIII

yellow asteraceae :-

adult Nil

germ. C. 200

Salsola Kali 1 (dead)

(25)

FENCED

quadrat #7

Spear grass adult 1

" " germ. c. 80

Zygophyllum 1

Erodium 1

grass B' germ. c. 100

grass A' 36

Salsola Kali 2 (dead)

Flaxseed leaf III

FENCED

quadrat #9

"Milk Weed"

Yellow Thistle 1

grass A' IIII

Yellow Asteraceae

germ. c. 80

Salsola Kali 1 (dead)

Flaxseed leaf 1

Spear grass adult 1

germ. 10

Algha Thistle IIII (dead)

purple Asteraceae II

26

CONTROL.

'Insects 3/1/64'

Quadrat #1

Yellow Asteraceae

germs. c. 350

Balsamor 111

grass 'A' 8

grass 'B' germ. 111

Erodium 1

Spear grass germ. 1

Zygophyllum 1

'milkweed' #2 1

control

Quadrat #3.

Yellow Asteraceae

germs. c. 80

Erodium 1

grass 'A' 111 111

Spear grass germ 11

grass 'C' 1

(27)

CONTROL

Quadrat #5

Yellow Asteraceae
(germ.) c. 120

Quadrat #7

Spear grass (adult) III
Yellow Aster. (germ.)
c. 80

grass 'A' 45

purple fl. Ast. III

Swainsonia I

Quadrat #9

Salsola kali (dead) 1
grass 'A' III
Yellow Aster (germs.)
c. 120

Quadrat #10

Yellow Asteraceae
(germs.) c. 150

Zygophyllum 1

Erodium II

Hamul lect 1.

(28)

2/8/95.

Walking to Salmon
Crown pit traps:-

1x2 RR

W.W. Wrens (imm.)

1x4 W. Chats

1x2 Goldfinches

1x2 WTE

1x3 W. T.

outside reserve
gate

1x12 WTE.

2 1km S reserve
T.P.

THURSDAY 10 AUG '95

LAKE MARLION

w/- WARWICK ROE

Clay pan on W.

BOY Groganrie

N.P. N. of road :-

1x2+1 Mountain Duck

1x2 Grey Thrush

1x10 H.H. Grebe

Cond = 173.6 $\mu\text{S/cm}$

=

Temp = 14.4 $^{\circ}\text{C}$:-

(29)

10/8/95

Willie Wagtail
Pallid Cuckoo

W FHE

SHE

Nineteen white Rock:

SHE (c)

2+2 Eww

1+2 M.f.

4R Thornhill (c)

Bellbird (c)

Callis ternura dampen
(same as 12/6/95)

Cord = 168.2 $\mu\text{S}/\text{cm}$

temp = 14.6 $^{\circ}\text{C}$

2x2 + 1 c/3 Grey Teal
1x H.H. Grebe

1x Eww

Willie Wagtail (c)

Bellbird (c)

Striped Pardalote (c)

Pallid Cuckoo (c)

Little Crow (c)

1x SHE (c)

Dowley Rocks Rd

1+2 Eww c/2.

Twin Tanals

1+2 goats w/ kid
despatched!

(30)

10/8/95

Lake Maranon

periphyton claypan:

1x4 Grey Test

C. 15 H.H. Grebe.

Cond. = 10.23 ms/cm

Temp = 16.7°C

Lake Maranon

sample point:

Cond = 126.7 ms/cm

TDS = 63,350 mg/l

Temp = 22.6°C

depth = 5 cm.

Donkey Rocks:-

1x2 M.T.

1x1 Emm w/- c/b.

Kal - Lake Maranon
via Donkey Rocks
Rd 3.25 hours.

(31)

FRIDAY 11 AUG '95

White - Flag Lake :-

Cond. = 17.66 $\mu\text{S}/\text{cm}$

Temp = 17.8°C

1x4 H.H. Grebe

2x2 Gray T. Owl

1x Mountain Duck

SUNDAY 13 AUG '95

LAKE ARROW.

Depth of gauge 32 cm

22 cm

(real depth)

surface Cond. = 6.23 $\mu\text{S}/\text{cm}$

TDS = 3115 $\mu\text{S}/\text{L}$

temp = 13.0°C

bottom Cond. = 6.27 $\mu\text{S}/\text{cm}$

TDS = 3135 $\mu\text{S}/\text{L}$

temp = 12.8°C

dry wt sample 0.1 g.

(32)

13/8/95

LN Abial c. 35-40

BW still c. 60

incl. 4? 5 nests
on 'Lear' island

2 x C/3

2 x C/4.

4 one LN doct

1 is BW still

1+2 Mountain Duck

c. 20 Grey Teal

1+2 Black Swan

incl. one on nest

MONDAY 14 AUG '95

LAKE BOONDERA

wt- REOFF YOUNG.

D.O. orig of Trans Access
on Bypass

23.5 Trans T.O. /
wt along.

3 x 1 WTE

1 x Brown Falcon

205.5 Zanthus

206. Curlew to # N.

215 Wetland. wt-

Bringing matter &
bead Mairana

Sedifolia

(33) 14/8/95.

C. 20 Coot

C. 30 Grey Teal

BHEs (c)

220 Wetland

958-01
~~458-01~~

236.3 Pontow CK

Crossing washed

out, water 2 m

deep flowing strongly

Cond = 24.8 $\mu\text{S}/\text{cm}$

TDS = 12,400 $\mu\text{g}/\text{L}$

1x Pacific B. Duck

1x3 H.H. Grebe

1x15 Grey Teal

lunch here :-

WFHE (c)

SCHE (c)

BHE (c)

1x Little Crow.

1x PBB. (c)

Whehill. (c)

RWB (c)

Striped Pard.

+TAB

259 1x 165hd

Salmon Gum woodland

266. Zanthus

proceed E. along

No. side Railway.

(34) 14/8/95.

268.6 2 months
'wetland' where
Trans. line was
" " "

BOONDEROD

AGE 95 w/
GEORGE YOUNG

327 Kitchen.

327.9 thru gate
'Private Road - No
Entry' 4 S.

338.3 Lake 95X-02 ✓
Boonderod.

31° 06.35' S

124° 15.64' E.

95X-03 ✓

#1 31° 06.24' S

124° 16.21' E

8.8 m

Cond. = 7.80 mS/cm

TDS = 3,900 mg/L

Temp = 15.0°C

(35) 14/8/95.

268.6 2 cm tubes

'wetland' where

Trans line was

flooded :-

Cond. = 426 $\mu\text{S}/\text{cm}$

TDS = 213 mg/L

2x1 PE Duck

imm. Coots

Pollard Cuckoo (c).

1x Little Eagle

1x2 Crag Teal.

287 Ponton CK
cross on Railway
Bridge 4 E,

327 Kitchen.

327.9 thru gate

'Private Road - No

Entry' 4 S.

338.3 Lake 95X-02
Bounded.

31° 06.35' S

124° 15.64' E.

95X-03

#1 31° 06.24' S

124° 16.21' E.

8.8 m

Cond. = 7.80 mS/cm

TDS = 3.900 mg/L .

Temp = 15.0°C

(36) 14/8/95

Shot run in boat :-

GT num.

Coot num.

174 WFT.

calling at night :-

Musk Duck

17 Mountain Duck

Neobatrachus sp.

TUESDAY 15 AUG '95

Lake shore walk :-

17 Mudpark

2x2 Aust. Shovelers

(counting)

few H. H. Grebe

GT (num.)

Coot (num.)

2x2 PED

fresh Echidna

scratches

hooting :-

172 MD

142 PED

14 Wh. Kite

GT num.

(37)

15/8/95

Inlet :-

1x2 plus others GT

1x2 shovels

few coots.

95X-04 ✓

#2 31° 05.99' S

124° 15.77' E

Cond = 8.74 mS/cm

TDS = 4370 mg/l

depth = 2.2 m

temp = 11.9°C

1x2 PED

1x2 shovels

GT mmm

coots few.

95X-05 ✓

#3 north point :-

31° 04.73' S

124° 16.32' E.

1x Mink Duck (c)

GT mmm.

coot mmm.

1x2 PED.

Cond = 8.88 mS/cm

TDS = 4440 mg/l.

temp = 12.5°C

depth = 2.3 m

Island :-

31° 05.68' S

124° 16.35' E.

95X-06 ✓

(38)

15/8/95

Island (cont'd)

1x *Tiligia rugosa*

1x *Pseudochis amstelis*

1x2 *Demania*

psammophilis

Echidna scratchings

1x2 YTM

1x *Euc. oleosa* on
limestone ridge

95X-07 ✓

#4 31° 05.71

124° 16.92

Cont. 8.64 m/s/c

TDS = 4320 mg/L

Temp. 13.1°C

Depth 11.5 m

95X-08 ✓

road on S. side of
lake.

31° 06.75 S

124° 17.18' E.

2.5 Km to launch
site.

1x2 GT

few Cods

1x WTE.

95X-09 ✓

Cleared line 130°

very
sh! 31° 07.13' S

124° 17.19' E.

1x WTE

1x Wh. Kite

95X-10 ✓

Pontoon CLK :-

31° 07.90' S

124° 17.29' E

(39)

15/8/95.

Cond = 6.61 ms/cm

TDS = 3,020 ug/L

depth = 3.5 m

temp = 14.1°C

S. bank : - 95X-11

31° 08.05' S

124° 17.30' E

return to launch

4.03 km NW.

1x Aust. Shoveler.

few coots

Back to launch

I.K. & W.R.

arrive C. 11.30 AM.

P.M. Trip to S :-

1x2 + 1 PED.

1x H.H. Grebe

#5 : - WATPOINT 001. 95X-12

31° 07.84' S

124° 16.61' E

Cond = 6.62 ms/cm

TDS = 3310 ug/L

depth = 3.4 m

temp = 15.5°C

1x Aust. Shoveler.

(40)

15/8/95.

Pontoon Channel 4 SW

1x Shovel + 7

1x 2 PED.

1x3 WFH.

SCHZ (C)

1x Wh. Kt.

1x4 PED

1x BFE.

#6 Ponton Channel

95x-13 ✓ 31° 08.95' S

124° 16.11' E

Cond. 7.19 ms/cm

TDS 3559 ug/L

Temp. 15.6°C

depth 1.3 m

1x7 PED.

BHE.

1x2 MD

1x2 A. Shov

1x2 Black Duck.

#7 Ponton

Fast flowing 95x-14 ✓

31° 09.73' S

124° 16.07' E

depth variable

20 cm - 1.0 m

Cond. = 23.7 ms/cm

TDS = 11,850 ug/L

Temp = 15.8°C

Return to island

remove Echinus to
mainland.

Black Swan (C) fl. at
night

(41)

WEDNESDAY 16 AUG 95

Camp birds :-

PBB (c)

GBB (c)

1x Cockatiel

YTM (c)

Eastern expedition
to Lake Bonderoo
for se

few ST

" Coots

1+2 WD.

1+2 PED.

#7

31° 07.64'S

124° 17.27'E

95x15
Porton Channel
depth here 3.3m

1+2 ST

1x Masked Duck ♂

SCHE (c)

few Coots

Horsefield B. Cuckoo (c)

Willie Wagtail (c)

mixed Euc. & Cas.

aristata woodland adj.

RWB (c)

1x2 PED.

Little Crow (c)

1x Weebill

1x Little Eagle

Cond = 6.02 $\mu\text{S}/\text{cm}$ TDS = 3010 $\mu\text{S}/\text{l}$

temp = 13.6°C.

(42)

16/8/95

proceed E along
Ponton :-

1+2 PED

1x Galah

many pairs PEDS

1x3 + 1x4 GT

few Tree Martins

1x WFH

many PED pairs

few GT

few Coots

track N. side of CK in

31° 07.21'S

124 18.74'E

1x Kestrel

Small embayment

c. 50 PED

1+2 BFES

1+2 GT

#8

31° 06.56'S

124 19.24'E

embayment :-

Cont = 5.96 m/s/cm

TDS = 2980 mg/l

depth = 2.8 m

Temp = 14.4°C

c. 200 PED

1+4 + 1x9 Hard Heads

1+2 + 1 H.H. Grebe

1x WTE

few Coots

1x WFH

95x-16✓

(43)

16/8/95.

142 Pacific B. Duck.

142 Aust. Shoveler.

1x Varanus tristis
in cas. panper.

142 Chestnut Teal

1x Whisk D. ♂

turning E at :-

31° 07. 93' S

124° 19. 73' E.

open water to South
near. Coats

few GT

few Coats

1x Kestrel

1x2 WD.

#9

95X-18 ✓

deep clay pan

31° 07. 01' S

124° 21. 77' E

Cond = 5.74 mS/cm

TDS = 2870 mg/l

depth = 20.4

temp = 13.6°C

1x 40-50 BW

stilts open water

surface

95X-19 ✓

#10

31° 08. 68' E

124° 22. 00' S

19 m

proceeding S : E. Shore

1x WTE.

(44)

16/8/95

hmm GT

1+2 MD

1x Black Swan

1+2 PED

lunch at : 95x-20

31° 10.13'S

124° 22.34'E

Enc. oleosa woodland

on Kapi dune

RWB (c)

WFH

WST

weebill

Mank lark

1x P Black Duck

95x-21 ✓

gypsum dune d:-

31° 10.56'S

124° 22.72'E

deep 03

95x-22 ✓

31° 10.51'S

124° 21.56'E

Cond 5.79 mS/cm

TDS 2895 mg/l

temp 13.9°C

depth 21.0 m

1x Gull-billed Tern

N up w side

few GT Coats

1+3 Black Swan

1x WTE

243+1 Hard Head

(45)

16/8/95

95X-23 ✓

Island at :-

31° 10.54' S

124° 21.55' E

Echidna scratchings

YTM's

1+2 PED

Cas. pampas + myall

carnet shit

1x rabbit

1x GBB.

Proceeding N:-

Coots num.

GT "

PED few pairs

1x WD

Looking NW

2+2 PED

1+2 Chestnut Teal

Crown lined Pouter

CR :-

num. PED

Evening search on
latter for Neobatrachus
? Kneripolaviwhich are calling
from the water.

None found.

46

THURSDAY 17 AUG '95

Invert #1 (unbolled)

Pontoon CK :-

31° 08.34'S

95x-25 ✓ 124° 16.52'E

Cond. = 6.37 mS/cm

TDS = 3185 mg/L

depth = 2.7 m

temp = 14.8°C

1x2 WFT

few Little Crow

BHE (C)

few Coots

1x2 PED.

95x-25 ✓

Invert #2 (center
of lake) :-

31° 06.38'S

124° 16.44'E

Cond = 7.90 mS/cm

TDS = 3895 mg/L

temp = 13.6°C

depth = 8.0 m

(47)

17/8/95

Invert #3 Albatross

bay : - 95x-26

31° 06.00 S

124° 15.71 E

Cond = 8.44 us/cm

TDS = 4220 mg/l

depth = 1.6 m

temp = 13.6°C

Pack up, lunch

leave 12.10 pm

0.0 camp.

10.5 Kannadali gate 1W

11.4 Kitchen siding

50.0 Ponton ck

72.0 Zanthus

120.0 Hill

w/- Enc. Stricklandia

Erenophila pustulata

1+ Emm

1x WTE

1x Nestrel

278 Kal Av.

4.15 PM.

invert sample from
'launch' site.0.6 gms dry
material.

(48)

FRIDAY 18 AUG '95

LAKE 30 Km N.

NORSEMAN :-

Cond. = 2.23 $\mu\text{S/cm}$

TDS = 1.115 mg/l

Temp = 24.3°C

depth = c. 5 cm.

1+2 GT

1+2 MD.

MONDAY 21 AUG '95

Lake Cowan

Sample point.

Cond = 139.9 $\mu\text{S/cm}$

TDS =

Temp = 21.2°C

Water has receded

SD in since last

sample, some wind
effed 'though.

(49)

MONDAY 21 AUG '95

LAKE WANNAWAY.

Cond. = 4.25 ms/cm
TDS = 2,125 mg/L
Temp = 18.2°C.

1+ Musk Duck ♂
1x3 A.H. Cormorant
1x2 Coot Teal
1x 25-30 Coot.

SATURDAY 26 AUG '95

LAKE ARROW w/- PAUL.

depth on gauge = 30 cm
actual depth = 20 cm

surface 7.67 ms/cm
TDS =
temp = 19.1°C

bottom 7.74 ms/cm
Cond =
temp = 19.0°C

(50) 26/8/95.

first island :-

1x BW Stilt B/3

4x RNA

2x c/3 } eggs

2x c/4 } 52-57
mm.

2nd Island

1x BW Stilt c/5

eggs 44 mm.

1x2 RK Dotterell

? nesting pair

Long Island

1x BW Stilt c/4

(ABD.)

5x BW Stilt c/4

1x RNA c/4

2x BWS c/4

1x RNA c/1.

1x BWS c/4

1x Black Swan c/6

4x H.H. Cuckoo

2x c/3

1x c/4

1x c/4

'Close' Island

BW Stilt

5x c/4

(51)

26/8/95

BW Stilt c. 60

RW Avocet c. 35-40

2+2 Mountain Duck

1+ Black Swan

c. 70 Grey Teal

few H.A. Grebes

SUNDAY 27 AUG⁹⁵

LAKE DOUGLAS

w/- PAM

Cond = 202 $\mu\text{S}/\text{cm}$

TDS = 101 mg/L

1+2 WFM

1+7 Grey Teal.

SUNDAY 3 SEPT 95

BLACK FLAG LAKE

BREAKFAST w/- Pam.

Cond 13.13 ms/cm

TDS 6,565 mg/L.

temp = 13.0°C

C. 25-30 Adult

Black Swan

C. 75 near Adult

sized B Swan.

also few pairs
w/- recently hatched
cygrets.

probably few Mountain

Duck

WF Chats

YR Thrashers

1+ Pallid Cuckoo

1+2 RC Robins

(53)

SUNDAY 3 SEPT '95

LAKE ARROW w/ PAN

depth (gauge) = 25 cm

actual = 15 cm

top. 8.99 ms/cm

Cond = 8.99

TDS =

Temp = 14.4°C.

bottom = 9.16 ms/cm

TDS =

Temp = 13.9°C.

Nesting & Nod.

RW Anacardi &

BW stills as

before. ie 26/8/95

Black Swan - still on nest

1+2 Mountain Duck

c. 150 Grey Teal

Invert sample

0.6 gms.

(54)

WEDNESDAY 6 SEPT '95

RAESIDE X-ing
 101.8 ms/cm
 = 50,900 ug/L
 Temp = 21.4°C.

FRIDAY 15 SEPT '95

V CK AT

16' 29.6" S

15' 22.9" E

= 31.1 ms/cm
 = 15,550 ug/L
 = 24.3°C.

2nd
NEW

22/3/93

J

SUNDAY 17 SEPT '95

LAKE ARROW w/- PM

first IS :-

RNA c/4 c/3

BWS B/3

2d IS :-

RNA B/3

RNA c/4

AWS c/1

long IS

RNA c/4 ABP.

SWAN c/3.

GT c/1

RKO c/4 1x2

BWS c/4.

HH Core c/3.

c/3 ABP.

(54)

WEDNESDAY 6 SEPT '95

RAESIDE X-ing
 101.8 ms/cm
 = 50,900 ug/l
 Temp = 21.4°C.

FRIDAY 15 SEPT '95

PONTON CK AT

30° 16' 29.6" S
 123° 15' 22.9" E

Cond = 31.1 ms/cm
 TDS = 15,550 ug/l
 Temp = 24.3°C.

SUNDAY 17 SEPT '95

LAKE ARROW w/ - PAM

First IS :-

RNA C/4 C/3

BWS B/3

2d IS :-

RNA B/3

RNA C/4

AWS C/1

Long IS

RNA C/4 ABP.

SWAN C/3.

GT C/1

RKD C/4 1x2

BWS C/4.

HH Core C/3

C/3 ABP.

(55) LAKE ARROW 17/9

BWS c/5

BWS c/4

RNA c/4

RKD c/4

Shore IS

BWS B/6

depth = 7 cm

Cond (top = bottom)

13.26 mS/cm

TDS = 6680 mg/l

temp = 13.6°C.

1x50 RNA

1x10 BWS

2+2 Red Kneed Dotted

1x10 RC Dotted

1x5 Aust. Shelduck

1+2 Black Swans.

Invert sample

= 0.3 gww.

(56)

SUNDAY 1 OCT 95

LAKE ARROW w/
PAM & KARL.

Cond = 17.25 ms/cm
TDS = 8,625 mg/l
Temp = 20.40 C.
depth = 7 cm

RNA C/4 51, 52, 52,
53.

RNA 51 C/4 ABD

RNA 52 C/1

(w C/3 RAC Doherty)

RNA C/1 53 mm.

BWS C/1 44 mm

RNA C/4 51.5, 52.5
(? ABD), 53.5 54 mm

Black Swan C/3.

1+2 Red Kneer
Doherty (decoy
displaying).

BWS C/1 43.5 ABD

RNA C/4 51, 51, 51.5, 53.

1+2 Red Kneer
Doherty w. C/4.

1+2 Yellow-billed Spoonbill

1+6 RNA.

1+8 BWS

(57)

1/10/95

1x c. 60 Mountain Duck
1x c. 150 Grey Teal
1x2 Black Swan

Invert Sample
0.3 gm.

TUESDAY 24 OCT 95

LAKE ARROW w/-
PAM.

Dry at sample point
Body of water in
western side of lake
max depth 3 cm

Cond. #1 63.4 $\mu\text{S}/\text{cm}$
= 32,700 $\mu\text{g}/\text{L}$

Cond #2 61.4 $\mu\text{S}/\text{cm}$
= 30,700 $\mu\text{g}/\text{L}$

143 Sharp-tailed
Sand piper

(58)

24/10/95

119 H. H. Grebe

just fledged ~
incapable of sustained
flight. Predation by
Brown Falcon.

14 300 B.st, BW st
& RNA. ind -

* 270 B.st 90%
imm ie w/o band
ind. one imm. w/
yellow 'flag' on
RHS tibia

* 5 RNA vocat

* 7 juv. BW still

* 18 adult BW still

FRIDAY 27 OCT 95

LAKE ARROW w/-
PAM.

LAKE QUITE DRY
ALL BIRDS!
GONE!

BOAT CHECK LIST.

Compass
bailer
first aid
tool box incl tie
rowlocks

bars

ID books

camera

maps

scale rate.

cnib

anchor & line

GPS

radio

life jacket

waders.

matches

59

28/8/2014

CHAMPION L77

JC4.

40L = 40,000 ul

1% = 400 ul

2% = 800 ul

6

12/8 62.645
13/8

28/7 61816

29/7.

37800
2

18900

60

28/8/2014

WATER FOWL

#6.

(highlighted)
Circled annotations are by JL in 2013/14

JL 28/8/2014

①

WED. 23 AUG '95

HANNAN'S LAKE
w/- 1.K.

SARE

1x6+2 M.D.

Island # 1

3x RN Woodcock nests

1x Swan nest

all obsd.

Cond = 19.36 mS/cm

Temp = 18.3°C.

(2)

20 Jan 85 .03W

SWAN LARVAE

4.1 -/w

SWAN 2

.0.14 54241

1 # Jan/25

2 P202 toward 1st x c

2004 water 41

.1.10 110

20/200 28.01 = 2004

.20 2.81 = 2004

Island #2

5x Swan nests

2x2 Swan ink

1x B/6.

1x 15 4B Sparrows

1x 3 Green Egrets.

Rock bar :

1x 1 Swan w/- B/4

1x Swan w/- B/5

1x BW Stilt host eggs

on rocks c/3 4 Swan

1x Swan Nest

③

5th July
 2/2000 2nd 2
 1st 2nd 545
 2/2 41
 2/2000 2nd 21 21
 2/2000 2nd 21 21

4th July
 2/2 41
 2/2 41

2/2000 2nd 21 21
 2/2000 2nd 21 21

2/2000 2nd 21 21

142 BW Shift

1xc. 15 RN Aoud.

1420 Aoud. Stelduck.

old Swan nest on
 Stalk. :-

1x RN Aoud nest

c/3. eggs 50 mm

old nest on Swan
 nest 1x RN

Aoud nest c/1.
 egg 47 mm.

(4)

High W. 21.0 x 1
Low W. 21.0 x 1
High W. 21.0 x 1

Low W. 21.0 x 1
High W. 21.0 x 1
Low W. 21.0 x 1
High W. 21.0 x 1

Low W. 21.0 x 1
High W. 21.0 x 1
Low W. 21.0 x 1
High W. 21.0 x 1

South Shore

1 x WFH

1 x ST. + 1 x 3.
+ 1 x 2

Some

2 Cygnets are close
to flying

Canterbury W. Shore

1 x 2 Ant. S. Shore

1 x 3 R. N. Shore

1 x 1 West C/L

1 x Re. Dotted

Cond. 20.3 ms/cm
Temp = 19.8°C.

⑤

N. of Lake

90 cm deep

1x7 Black Swan

1x B/y

N. End

c. 40 adult Swans.

immatures ³²cygnets

all ages.

1x2 H.H. Grebe

2x2 Pacific Black Duck.

1x White Duck pair.

1x2 Terns.

⑥

NE corner

1 x c. 60 RW Avocet

1 x c. 20 Bw Stilt

1 x c. 22 Austr. Grebe

1 x 3 ducklings

1 x 3 Whiskered Terns.

W. Shore islands

Cond = 20.8 m/s/cm

Temp = 20.3°C.

Stony Island

1 x 20 RC Doffel

Isle Island

numerous RW Avocets

nests.

(7)

No! Not Lake
Penny



SUNDAY 12 NOV '95

LAKE? PENNY at

36° 34.39'S

121° 38.93'E.

4/- PAM.

1x 200-300 Mountain Duck

1x8 Black Swan

1x c. 150 Grey Teal

1x Yellow-billed Spoonbill

1x4 Whiskered Tern

Saw H.H. Grebe

1x4 Rc Boobies } 'island'

1x c/2. } island

1x4 Wood Duck.

⑧

12/11/95

num birds BW Still.

c/4 1111

c/3 1

c/1 1 ABO.

H. H. Grebe

c/4 1

1 x 70-80 BW Still.

incl c. 5% fledged

1 imm. w/o black

neck patch & w/o

pink legs.

max depth = 40 cm

deep Cond #1 = 17.27 mS/cm

Shore Cond #2 = 19.44 mS/cm

temp = 24.1°C.

Shore birds :-

Wedge Swallow

Tide Martin

WF Chat incl juvs.

YR Thornbills

larger lake at
flooded canalway
= Lake

Cond = 11.75 mS/cm

temp = 23.3°C.

few BW Still c. 15

few RN Auklet c. 10

1 x H. H. Grebe

144 Whiskered Tern.

142 Black Swan

1420-30 Whiskered Tern.

146 Murrelet Duck.

⑨

MONDAY 13 NOV '95

WHITE FLAG LAKE
at :-

$30^{\circ} 37.48' S$
 $121^{\circ} 18.35' E$

Golden Carp site -
dead fish c. 20
on edge 4 fish
just alive collected

Cond. = 33.7 ms/cm
TDS = 16,850 mg/l
temp = 25.1°C.

largest fish TL = 12 cm
Smallest fish TL = 4 cm.

142 Grey Teal
no other waterfowl.

SUNDAY 19 NOV '95

CANEGRASS SWAMP.

Cond = 9.45 ms/cm
TDS = 4775 mg/l
temp = 32.9°C.

Water only in
'Swamp' c. 20 cm.

2000+ Finches (unw.)
1x WFT.

main water body
all dried up.

(10)

TUESDAY 21 NOV '95

ROWLES LAGOON
w/ GDOFF YOUNG.

boat launching: -

few Coats w/ - B/2

1x3 Mask Duck ♂,

2 imm.

1+ CP Cormorant

1x 4-5 Whiskered
Tern.

Site of boiler

4.4 m deep

$$\begin{aligned}\text{Cond} &= 374 \text{ ms/cm} \\ &= 187 \text{ ms/k} \\ &= 187 \text{ ppt}\end{aligned}$$

(11)

21/11/95

temp = 21.5°C

Creek :-

1x2+1 LP Corm.

Flood out :-

1x mnsk D ♂

1x Cool w/- B(1)

plus few others ab

1x P Black Duck

few Coots

1+2 FRED

1x GT

1x mnsk

1x WFH

1x7 GT.

1x4 UNIO Ducklings

1x WFH

1x Hardhead ♂

flying + 1x2

open water birds :-
few mnsk Duck.

20 cm water at
Steel pipe gauge

1x2 w.f. between
Rowles & Carriage
overflow.

1x WTE

1x Kestrel

(12)

21/11/95.

Cannage 'overflow' :-

c. 20 Black Swan

1x10 Mountain Duck

Coots num. 100's

GT num. 100's

1x Masked D ♂

1x Whiskered Tern

1x20 Wood Duck

PETD 100's

1x3 SN Ibis

E. BOY :-

1x4 E num

1x2 M.f. +1

Cannage Extra :-

1x Kestrel.

(13)

SUNDAY 26 Nov '95

BLACK FLAG LAKE
w/ PAM, KAREN &
SLOTT

G.P.S. :-

36° 35.40' S

121° 17.61' E.

Conc = 22.0 ms/cm

TDS = 11,000 mg/l

Temp = 23.7 °C.

1x60 Black Swan

1x4 B/5-6

$\frac{3}{4}$ grown.

(14)

26/11/95.

boat launching site

$30^{\circ} 34.95' S$

$121^{\circ} 17.44' E$

Cond = 21.9 m/s/cm

Temp = $24.2^{\circ} C$

1x25 Wood Duck

1x2 Loat

depth here 72.0 m

Also Low

Mountain Duck

few other ducks

probably Grey Teal

(15)

MONDAY 4 DEC '95

KING of THE WEST
w/- WARRWICK ROE.

launching :-

2x2 GT w/- B/3, B/4

1x Whiskered Tern

1x3 Coats.

1x2 H.H. Grebe.

Site #1

Cond. = 7.49 mS/cm

TD5 = 3745 mg/l

temp = 21.4°C.

1.7 m.

1x Whiskered Tern

nest c/1 34 m

1x H.H. Grebe c/2.

c/3, c/4, c/3, c/2
c/1 100s of nests

Whiskered Tern

c/2 38 mm

c/1. 39 mm.

light blue/green
w/- black markings

'brown' grebe eggs

41.5 mm. c/3.

Whiskered Tern c/3.

37 mm.

(16)

4/12/95.

1x7, 1x3 Black

Swan

H.H. Grebes 100s

Coots 100s

Whiskered Terns 60-70

2x2 BW Stiff

N. end of lake :-

1x15 Black Duck

Fairy Martins - nesting
in cliffs

1x Striped Pard

Little Crows

1x SHE (c)

1x Brown Falcon

1x Black Duck

w/ - B/8

W. side shore

1x BT Native Hen

1x2 Mountain Duck

Shore birds :-

1x ww wren ♂

WF Chats.

1x3 Richards Pipit

1xc. 20 Banded Lapwing

Willie Wagtail

Windmill

1x BF Plover.

Nests in Moluccan
trees :-

1x White Duck c/2

eggs 80 mm

(17)

4/12/95

nest c. 1.0 m
above water.

1x Coot c/4
nest at water level.

Sample #2 :-

Load = 7.55 ms/cm

TDS = 3775 mg/l

Temp = 23.4°C.

other depths

1.5 m, 1.5 m

Abandoned nest

Full nest in

metalens

c/3 eggs 79 mm.

MONDAY 25 DEC '95

WANNAWAY LAKE
w/- PAM

Cond. = 8.87 mS/cm
TDS = 4435 mg/l
Temp = 21.9°C.

1x3 Musk Duck
1x15 Black Duck
1xc. 50 Grey Teal
1xc. 50 Coot
1xc. 20 H.H. Grebe

THURSDAY 1 FEB '96

WHITE FLAG LAKE
w/ PAM

CAUSEWAY SITE :-
Water flowing
E → W thru culvert -
crossing driveable

Cond. = 120 mS/cm
TDS = 60,000 mg/l
Temp = 21.9°C.

c. 200 Grey Teal
c. 150 Mountain Duck
c. 500 Banded Stilt

(19)

1/2/96 (cont'd)

N. arm of lake

1x 6-7,000

Banded Stilt c.

20% imm.

water depth c.

10 cm.

1x 400-500

Mountain Duck.

water v. clear.

1/2/96 (cont'd)

BLACK FLAG LAKE

'BARBECUE' SITE

c. 5,000 GT

1x 24 Black Swan

Saw 100 Banded Stilt
(incl. imm.)

v. few RN Avocet

v. few Bw Stilt
(incl. imm.).

Concl. = 66.4 m/s/cm

TDS = 33,200 mg/l

Temp. = 25.5 °C.

water v. muddy.

1x Mountain Duck.

(20)

SUNDAY 4 FEB '96

KING OF THE WEST
w/ PAM, KARL

Cond. = 12.32 mS/cm
TDS = 6,660 mg/l
Temp = 27.1°C

1x3 Black Swans
1x 20-30 Whiskered Tern
1x2 Mountain Duck
1x 25-30 Cery Teal
c. 50 Loats.

Max depth. 1.45m.

MONDAY 18 MARCH '96

BLACK FLAG LAKE
~ QUITE DRY AT
ALL POINTS.

WHITE FLAG LAKE
~ only water is
in western arm
WALL c. 1.5 km
W. of :-
30° 38.55' S
121° 16.99' E.

Cond. = 130.5 uS/cm
TDS = 65,250 mg/l

(21) 18/3/96.

1x c. 30 Mountain Duck

1x c. 100 Grey Teal

1x 7-8 RC Dottarel.

Water depth just
deep enough for
ducks to swim
c. 10-12 cm.

SUNDAY 14 APRIL '96

Pingvin Station wetland
at :-

30° 07. 80' S

122° 41. 06' E

1x 100 Loon

3x2 Aust. Shelducks

c. 50 H.H. Grebe

2x1 BW Stilt

few Mask Duck

few Grey Teal

1x WF Dottarell.

Cond = 375 μ S/cm

TD S = 187.5 μ g/l

MS 1470 Black Swan 2/4

(22)

WEDNESDAY 17 APRIL '96

Pontoon Creek Lake at:-

30° 16.90' S

123° 18.27' E

Cond. = 54.6 $\mu\text{S/cm}$

TDS = 27,200 $\mu\text{g/l}$

Temp = 21.5°C

Depth = 0.8 m.

1x5 Aust. Shelduck

1x2 PED

2x2 Aust. Shoveller

1x70 Carg Teal

1x C. 6 Coot

1x C. 6 H.H. Grebe

1x9 Black Swan

SUNDAY 11 AUG. 1996

KING OF THE WEST.

Cond. = 26.4 $\mu\text{S/cm}$

TDS = 13,200 $\mu\text{g/l}$

Temp = 15.9°C

max depth c. 0.5 m

c. 240 Black Swan

c. 3,000 - 4,000 Coot

c. 50 Aust. Shelduck

mostly paired

2x2 Black Duck

1x WFT

c. 50 H.H. Grebe

1x2 BF Plover

1x10 RC Dotterell.

MONDAY 26 AUG '96

LAKE WANNAWAY

W/- PAM

G.P.S. POS - -

31° 39.130' S EPE

121° 36.845' E 51m

1x7 Black Swan

1xc. 20 Aust. Shelduck

1xc. 150 Grey Teal

1xc. 50 Pacific Black.

One clutch of ducklings

V. small c/f probably

Aust. Shelduck.

Cond = 33.1 mS/cm

TD S = 16,550 mg/l

temp = 19.9°C.

depth = 25-30 cm (max)

23A

28/8/2014

1 SEPT '96

LAKE DOUGLAS
w/ - PAM.

14241 1. Black Duck
14 BF Plover.

14 SEPT '96

KING of THE WEST

Cond. = 30.8 $\mu\text{S}/\text{cm}$

TDS = 15,400 mg/l

temp = 20.3°C

max depth e. 0.5 m

THURSDAY 7 SEPT '96

CANEGRASS SWAMP.

- 12 for waterfowl
water only in
'clay pan' areas not
very full at all.

Cond. = 735 $\mu\text{S}/\text{cm}$

TDS = 367.5 mg/l

temp = 11.7°C.

(24)

THURSDAY 7 SEPT '96

Lake alt: -

30° 33.478' S

121° 39.421' E.

Cond. = 135.6 $\mu\text{S/cm}$

TDS = 67,800 $\mu\text{g/l}$

Temp = 23.0°C.

C. 40 Inst. Shelduck
feeding on ? Algae
depth c. 15-20 cm.

Note: water in lake
still from Cyclone
Bobby Feb '95.

WEDNESDAY 13 NOV '96

LAKE BOONDEROO

w/ BRENDA NEWBEY

Boonderoo

NOV '96

w/ B. NEWBEY

RCL

THURSDAY 7 SEPT '96

Lake at :-

30° 33' 47.8" S
121° 39' 42.1" E.

Cond. = 135.6 $\mu\text{S}/\text{cm}$
TDS = 67 800 $\mu\text{g}/\text{L}$
+ temp = 23.0°C.

c. 40 Aust. Shelduck
feeding on ? Algae
depth c. 15-20 cm.

Note: water in lake
still from Cyclone
Bobby Feb '95.

WEDNESDAY 13 NOV '96

LAKE BOONBEROO
w/ BRENDA NEWBEY.

Ex Kk 11.00 AM
0.0 Origin of Trans
Across.

142 + 4x1 Kostel.

110.6 Lunch in
Euc. gleason
Salmonophloeis

PBB

GBB

PLL

(25)

13/11/96

1x RWB

Wetbills

1x Curlewong

YTM's

3x1 Kestrel.

264.6 Kitchen.

285.2 - grid A W
on S. side road

286.2 A S.

Once in the vicinity
of Lake Boonderoo
M.f.s & WTEs
were seen - none
elsewhere.

LAKE BOONDEROO

96X-01

CAMP POS:-

31° 06. 533' S

124° 23. 507' E

Alt 410

'ISLAND' POS:-

31° 05. 68' S

124° 16. 35' E.

96X-02

(26)

THURSDAY 14 NOV' 96

CAMP BIRDS:-

Horsefield B Cuckoo

SCHE

1x Little Falcon

Willie Wagtail

num. Little Grouse.

PLP

YTM's

Gbb

PBB

Striped Pard.

LAKE BOONDERPOO

7.00 AM out on water

SW then S. then

NW & back to camp.

11.30 AM.

#1 7.8 m 96X-03 ✓

Temp 21.5°C

Cond 8.31 mS/cm

31° 06.874' S

124° 22.246' E.

#2 7.3 m 96X-04 ✓

Temp 21.4°C

Cond = 8.26 mS/cm

31° 08.096' S

124° 22.374' E.

(27)

14/11/96

96X-05

Go ashore at :-

31° 10. 632' S

124° 22. 610' E.

1x Chonophorus cristatus
on bench!

weebills

min. black,

vehicle track in
from E. to this
point.

1x BFC5

CR. Thornbill

Willie Wagtail

Cattle come in to
drink at this
point

LAKE BOONDEROO

#3

13.7 °w

21.3 °C

96X-06

8.33 mS/cm

31° 08. 876' S

124° 21. 591' E.

#4

16.1 w

22.6 °C

96X-07

8.32 mS/cm

31° 10. 524' S

124° 21. 832' E.

#5

2.4 w

23.1 °C

96X-08

8.37 mS/cm

31° 10. 026' S

124° 20. 387' E

(28)

14/11/96

Return to camp
for lunch :-

3.00 pm. boating
over 'brockwater'!

#6 S. Road Xing

0.9 m

96X-09 ✓

9.47 mS/cm

26.8°C

31° 07.597' S

124° 23.716' E

#7 0.5 m

96X-10 ✓

9.72 mS/cm

27.7°C

31° 06.449' S, 124° 23.465' E

LAKE BOONDEROO

FRIDAY 15 NOV '96

Boating across to
Panton CK :-

#8 5.3 m 96X-11 ✓

* 1570 mS/cm

20.8°C

31° 08.992' S

124° 19.446' E

#9 3.5 m 96X-12 ✓

* 1553 mS/cm

21.3°C

31° 07.921' S

124° 18.848' E

(29)

15/11/96

#10 Ponton Channel

2.1 m

* 1525 μ S/cm

22.2 °C

96X-13 ✓

31° 07.930' S

124° 18.189' E

#11 FRED site

(turbid water)

2.1 m

15.16 μ S/cm

21.9 °C

96X-14 ✓

31° 07.972' S

124° 17.103' E

^u = Turned About ^u



#12 Creek TAB site

96X-15

0.6 m

12.08 μ S/cm

22.6 °C

31° 08.367' S

124° 16.167' E

* * * False

readings why? I

don't know!

IGNORE!

(30)

15/11/96

bird walk on N.
side Ponton CK
at :- 962-16

31° 07. 876' S

124° 18. 091' E

1 x Goldfish Lamp !!

dead on bank

here - large one
18 cm long.

Tree Martins

Cattle parts here

Little Crows (1)

Weebill (1)

1 x WTE

SUR (1)

(31)

15/11/96

1 x GBB (C)

96X-17

5.6 m

#13

8.53 ms/km

22.3°C

31° 08.043'S, 124° 19.633'E

#14

5.4 m

96X-18

8.35 ms/km

21.8°C

31° 06.925'S, 124° 21.641'E

1 whk on Isthmus

at :-

31° 06.694'S

124° 21.432'E

VTNS

mud lark

96X-19

LAKE BOONDERED.

Little Crows (many)

Cattle have been here too!

1 x 3 M.F.

Isthmus was an island at Peak flood.

Return to camp
1.30 PM.

Evening HT

1 x Diplocaulus maini

Brenda saw an
Echidna this
afternoon.

SATURDAY 16 NOV '98

Cooler morning w/
westerly change

Morning walk :-

Drigo tracks by
lake

(Fox tracks on
and white tracks

Yesterday)

1x m.f. (blind)

1x2 Red Kneel
Dottrell.

Strong NW wind
too, windy on

lake, dinghy
birding on broad waters

land birding
'northon road

Swamp :-

1x2 Red Kneel Dottrell

1x6 WFT

1x20 Gulls.

1x3 Coot

1x2 GT

Low tree martin

now. Little Crows.

'Southern road Swamp'

1x2 Eme

1x Tilapia ryasa

(very black one!)

(33)

16/11/96

1x *Ctenophorus cristatus*
tam water/SX

#15

0.5 m

96X-20

8.53 ms/cw

20.3° C

31° 06.458'S, 124° 23.142'E

11.00 AM. Now a

gale warning on
Lille Broadoveroo.

NW wind 25-30

K km/hr.

Meet with Goldhills
Naturalists c. 1.00 PM.

Visit 'gypsum cliffs'

Lat 31° 10.632'S

124° 22.616'E

by vehicle

1x4 + 1x2 M.F.

1x2 RR.

Blowing westerly
gale now.

(34)

SUNDAY 17 Nov '96

#16 4.4 m

96X-21 8.8 ms/cm

19.2°C

31° 06. 699' S

124° 21. 647' E.

#17 N. end subaquatic

1.8 m

96X-22 8.78 ms/cm

18.5°C

31° 05. 848' S

124° 21. 155' E.

0.0 Lake Boonaroo

Leaving 3.00 PM.

3.4 track to W.

6.8 track to S.

8.7 camp site on
Lake.

14.0 = 3.4

22.6 Trans Access
Rd to W.

2X2 WTE

2X1 WTE

3X1 Rabbits c.

40-50 Km E.

Kalgardie. Only

one seen on trip

(35)

1x Boobook owl
Killed on road.

316.8 Kalgoolie
Arr. 7.45 PM

Boonderoo

NOV '97

w/- A. CLARKE

MONDAY 17 NOV '97

LAKE BOONDEROO w/-
ALLAN CLARKE.

D.O. Trans Access Rd
origin 11.00 AM.
5x1 WTE

161.8 Lunch stop in
Euc. oleosa / Euc.
laeontei woodland
w/- Cratystylis cono-
cephala vs.

Eremophita pastulata
2000 at :-

31° 01' 29.4"

123° 07' 26.5"

(36)

17/11/97.

30-40 plants
red-brown loamy sand
calcrete nodules in soil.

204 Zanthus

224 Ponton CK

229 1x Echinops -

hallex woodland

2x1 WTE

263 Kitchen

283.5 Fence, good
turn W. S. side
of road

284.4 turn S.

294.5 Camp at

Lake Boulderoo.

Same camp as last
year at GPS pos.

97x-01

31° 06.533' S

124° 23.507' E.

Arr. C. 4.15 PM.

2x1 m.f. between
Kitchen & lake.

1x RK ditto.

(37)

Lake Boenderen camp

birds :-

BFCs

GBB

SCHE

Maspie Lark

RWB

PLP

YTM

1x4 Galah

TUESDAY 18 NOV '97

Fine, sunny morning
off in boat 7.30 AM.

launch site birds :-

1x5 PED

1x FRED

1x2 AUSTR. SHOV.

few Coots

few GT

few B.W. st. c.4

few Greenshank c.5

OTX-02

launch

31° 06.696' S site

124° 23.434' E. &

1x H.H. Grebe

1x Musc D. +1

18/11/97.

1x4, 1x2 PED

Goldeneye (C)

1x0.40 PED, 1x2

1x2 Coot.

1x6 GT.

1x Hardhead

1x2 H.H. Grebe

1x Little Eagle

1x2 PED. + 1x2

1x6 Coots

open water now:-

1x FRED.

1x10 WT. + 1x2

1x35 GT

1 now tree tops:-

num. Coot

1x2 Silver Gull

1x Black Swan + 1

near Ponton Ck

channel:-

1x2 Black Swan

1x FRED

1x4 FRED.

? no string - dooby display

310 08. 046

1240 18. 644

1x5 H.H. Grebe

1x3 WFH.

1x2 Musk D. + 1

1x2 B.W. St.

large Camp here!

1x2 PB Duck + 1x2

1x3 FRED + 1

num Coots.

1x2 PED.

Fig 37A!
28/8/2014

97X-03

(38)

18/11/97 No! blind channel

Far up CK at :-)

31° 08.032' S

124° 18.192' E

Walking into back S
& into shrubland

1x Coot host ABD

? 1x Mink Duck

host in hollow

Eul. eggs 80 mm

1x9 GT

1x5 Hard head

1x Silver Gull

B. W. St (c) +1

1x2 BT N. hen.

Find proper channel

1x FRED

recent Coot host +1

+1 +1 +1

1x Black Swan

1x WFT

main Ponton channel

→ W :-

1x2 Mink

1x2 Whistling Kite

1x2 B.W. St.

1x2 GT w/- c/s.

1x3 H.H. Grebe

1x2 GT

1x2 Hard head +1

1x WTE

few H.H. Grebe

few Coats

1x WFT.

1x3 GT

1x Aust. Shelduck

(39)

18/11/97

1x2 Little Grebe
 (2 ♂♂ coloured pp.)
 1x7, 1x3 Hardhead
 1x2 WFH
 1x3 GT +1
 +1 (Juv.)
 2x2 GT.

Pontoon CK navigable
 to :- 97X-05
 31° 07. 920 S
 124° 17. 216' E.

1.99 ppt. of 2.00
 = 6.03 ppt ~~not~~
 10.60 mS/cm.

TAB

1x GT w- c/2.
 1x5 Black Swan
 1x PBD can't fly +1
 1x2 Aust. Shelduck.
 back to main lake :-
 1x B.W. St.
 1x Chestnut Teal
 1x WFH.
 num. GT
 num. Coots
 following N. shore :-
 1x5 WFH
 1x3 B.W. St.
 num. GT
 1x Hardhead +1
 num. B.W. St.
 1x12 Aust. Shovell.
 (can't fly)

(40)

18/11/97

1x4 WFT
Coots GT wmw
1x 'Aust. Shelduck
1x2 Bl. Swan
1x Greenshank
wmw. GT.
1x2 Aust Shelduck
1x Coot (Juv.)
1x Bl. Swan
1x MALL.
1x2 FRED
incl. juv.
1x 150-200 PED
1x Harelda
1x Bl. Swan
1x3 Silver Gull
1x2 PED

wmw GT

1x Greenshank
1x2 Bl. Swan
1x2 WFT
1x3 Bl. Swan
wmw. GT

Northern whymet :-

1x GT w/- c/7.

1x Bl. Swan

1x2 PED

Coots

1x3 Aust. Shelduck.

1x2 B.W. St.

1x6 WFT

1x Silver Gull + 1 + 4
wmw. GT

(41)

18/11/97

1 x Greenshank

1 x 2 R. Plover on
'mud island'

Also ABD Swan nest.

1 x 15-20 B.W. St

(no nesting!)

few R. Plover

1 x 2 R. K. Dotterel

→ NB! 2 x host

w/ c/3 eggs 42 mm

c/4 " 42 mm

1 x 6 + 4 Am. St

1 x 25 B.W. St

num. GT

Out of Embayment
now.

GT B/7

1 x 2 Silver Gull

10 min. back to
open water surface :-
GPS pos :- 97x-06 ✓

31° 07. 428' S

124° 21. 918' E.

4.85 ppt. @ 0 m

8.76 ms/cm

depth = 11.4 m

cf. 4.73 @ 4 m

1 x Bl. Swan

1 x 4, 1 x 3 +

Am. St. Shelduck

1 x 3 Bl. Swan

(42)

18/11/97

Low Coats

1x2 Bl. Swan

1x PBD

1x4 Bl. Swan

At GPS pos: -

97x-07

31° 11.086' S

124° 22.676' E

depth = 15.9 m

Sal surface = 5.62^{ppt}

Sal 4 m = 4.70

pH = 8.32

temp = 21.3°C

temp (1m) 19.1°C

Dead trees on W. side: -

Coats (imm.)

1x Aust. Shelduck

1x2 GT

1x2 Bl. Swan

1x Coats nest recently

ABD.

Stop on Island

1x fresh Yelting

Claw.

3x1 Black Swan + 4x2

1x3 GT. + 3x4

Coats very many. + 4x2

1x GT.

Stop on Island

(43)

18/11/87

1 x Greenshank

1 x 11 GT

num. H.H. Grebe

143 BF Plover

1 x Swan nest ABD

large, fresh Yabbie
claws.

1 x PED

1 x Bl. Swan + 2 + 2

1 x Coots nest ABD.

Coots v. num.

1 x 2 Bl. Swan + 2

Bl. Swans num.

97x-08

GPS pos: -
31° 07.663'S
124° 22.520'E

Sal. 0 m = 4.92 ppt.

Sal 4 m = 4.69 ppt

Cond 4 m = 8.58 μ S/cm

depth = 6.6 m.

Site of ionic
composition survey.

Camp entrapment:-

few GT

2 x 1 PBD

2 x 2 B.W. ST.

1 x Greenshank.

Back to camp. c.
4.15 PM.

(44)

18/11/97.

Bird walk S. of

Camp :-

1x3 Little Crow

1x2 Aust. Ringneck

1x Gbb (C)

1x SCHE (C)

1x RWB (C)

1x2 Emu

Follow 'backwater' back
to camp :-

1x7 IFRED +1

1xc.12 B.W.St

Wm. Duck (C)

1x Green Shank

1x5 PED

Cat tracks.

WEDNESDAY 19 NOV 97

Pack up camp, leave
7.30 AM, head
around to NW side
of lake c. 12 km
SE. Kitchen siding.

1x2 Bastard

1x10 RR

myan / Black Ock
woodland.

Launch site:

1x4 WPH

Low GT

1x6 B.W.St.

12th 1 imp.
(w/o black head)

(45)

19/11/97

4 S.

1x FRED

few H.H. Grebe

few GT.

num. Coot

1x Anst Selduck

1x3 Silver Gull

? Brillon's Gull in
dark water

Corp here too!

num. GT.

few Coots.

1x2 WFH

1x2 Bl. Swan

1x5+1 FRED

1x30 H.H. Grebe

num. GT.

1x FRED

1x7 PED

1x Anst. Selduck +1

num GT

1x WFH

few Coots

1x3, 1x4 Anst Selduck

1x Bl. Swan

1x FRED

1x Coot lost - recently
used

1x Bl. Swan

landing E. along S. side

2x1 Mute D.

num. Coots

(46)

19/11/97

1x +0-50 Hardhead

1x2 FRED

many GT

1x Silver Gull

1x2 FRED

1x GT JUN.

Most S. herring

Spot at GPS :-

31° 07.655'S

124° 17.209'E

1x BF Plover (C)

TPS = 8.48 ppt

Cond = 15.02 ns/cm

Cyphus = 15.35 ns/cm

1x2 FRED +

JUN.

1x WFH nest w/ B/3

1x mud on nest

Whistling Kite on
nest + one

in 1st year plumage
hosting over water

4 N into deeper water
cooks many

1x Bl. Swan

Follow E. Shore

1x Aust. Scaup

few coots

28 x FRED !

(47)

19/11/97

1x Aust. Shelduck

Sew GT

Sew Hardhead

" GT

" Coots

1x WFA

1x Wink D

1x2 Aust Shelduck

1x2 WFA

1x FRED

1x2 Aust Shelduck

Small backwater:

1x RN Annet

1x50 PED.

Sew GT w/- Juvs.

Saw b.w. st.

1x7 FRED

1x Little Eagle

1x100-200 GT

172 Aust Shelduck

1x7 FRED }

1x30 PED }

1x28 SN Ibis
32

Land on is thus

to walk to island

at : — 97X-10 ✓

31° 05. 68'S

124° 16. 35'E

'Island' now joined to
'main land'!

(48)

19/11/97

1x3 Sharp-tailed SP

1x7 B.W. St

1x2 " (broken

wing displaying)

1x4 RC Plover

1x Green Shank

1x RN Stint

1x WFA.

1x2 RK Dotted

c. 15 ST Sandpiper

c. 70 RC Dotted

c. 3 Sanderling

c. 107 RN Stints

Base at 'Telescope
Site'

1x3 Silver Gull

Back to launch site

2.00 PM. Lunch.

Camp at old campsite

near gravel pit in

Black Oak / Myall

woodland

97X-11

|| Sample site at GPS.

31° 06.156' S

124° 16.550' E

Cond = 13.50 $\mu\text{S}/\text{cm}$

Sal (surface) = 7.25 ppt

Sal (4 m) = 7.41 ppt

depth = 5.9 m

pH = 8.8

(49)

THURSDAY 20 Nov '97

Packed up &
away 7.00 AM

1 X Banded lapwing
at launch site

1 X g M.F. Macropygia
bicolor
between 1st &
2nd trees

Back to Kalgoolie
10.45 AM.