

Jim Lane's Field Notebooks

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TO BE CONTINUED

3510 NOTEBOOK

FAINT

1979

(Apr - Sep)



Prints (and other) logs are from
July 2002 search for field notes
to incorporate (as appropriate) in
report on 1976-77 Peel-Henry
waterbird surveys.

R 21/7/02

Mon 16 Apr 79
"King Swamp" Ecology

Shot 1100 hrs -
1 White Ibis + 2 + 141
16 Marsh Duck + ~ 30
1 White-F. Heron
1 Little Blue Cormorant.
1 small hawk
Many Fantail
Wilson
Thornbills?

1 Swallow
2 Black-f. Abt. + 7 + 4

[62:20-35]

Rel. 62:19+20 → end of film.

Open edge - com.
Very pretty better to average.

Cake or bit or Petioles under Swamp?

Water Sample 2.9 ppt.

141
②

(2)

Finished at 1320 hrs.

Working down Lower R. gate 832.0
drain crossing - 8 Thick sheet

Single plate in drain.

Drain crossing at 832.9 - 2 Thick sheet

Intersection at 22.9 - drain straight on.

Right Turn at 24.6

again. Thick drain crossing at 25.3 m - 16 Thick

sheet parallel + 1 W.H. 4th floor.

Finally at low level.

Turn right onto driveway at 27.5 m - 26.55'

Cross 1st floor Main Drain at 27.3 - 1 W.H. then

Turn left into Nicholson Rd 27.7.

830.2 - Centre of house N° 12049 (Plate 28)

1410 hrs. Walked down to lake

in SE corner of reserve - This was

dry. Has thick peat layer on

bottom. Trampled by M.

roughly the - pressure, with one

(3)

clump of *M. tenax*. No signs
of mosses - grass under.

[Plate 63:6-8]

Then down on end looked at central
lake on west side of reserve. Thick
bed water to 0.5 m deep. Bright
dark - thick brown water.
Salinity 10.2 ppt.

No birds. 3 P. to - pressure

63: 8-10 m. thick plate was

[63: 8-11] of the surrounding land (floriferous)

near first lake.

Loose remains at edge of second lake

(see animal)

Finished at 1415 hrs.

Walked west along road near. Finished

left onto road at 31.3 m.

Right Turn at 32.8

1630 - 1645 hrs.

Rev. Dr. 12632

Valued them to your water since
from road on north side of reserve.

Dry base - [63:12-15] (Pinnacles)
Sant. then with great deposit.

The West limits. Mr. explaining the
to previous present. ^{the} presence
of women on the part.

Wed ~~Feb~~ 18 APRIL 79 1140 - 1150 hrs.
Lake Cookinings (Rocky Lake)

Water level 2. low.

Approx 2,000 Black Duck (estimated)
in ~~1000~~ groups of 100

Single shoot
in shallow water)
SE corner of lake. (and including
near by) (and = 300) feet

Apparent to be a pure plant of
Black roots.

Another flock of approx 4,000 ducks
centrally located towards west side of lake.
Probably Duck Creek. The few closer
birds certainly were.

Thurs 22nd 1956

Amey / Amey

Tony Allen - Hydrology of Lake Tanganyika

W. T. H. water goes into the sea bed.
I am not sure of "W. T. H. water"
(hydrophobic water)

Japan 4.5 km. and west.
1.5 m. diameter.

$3 \times 10^6 \rightarrow 1.5 \times 10^6$ cubic volume of water
written

$12.5 \times 10^6 \text{ m}^2$ of water from Wampanoag Lake.

W230	W240	W250	→
0.5	0.5	0.5	→

limited production 1976

fall note " 1979 (over time)

Computer model predict 2 m of
water table drawdown.

Investigate commenced 1977

31 observation bore at 15 sites -
To measure depth of water table, and
depth. (1000 m of drilling)

No bore in center of lake due to high cost.
Relevant along also carried out (Borehole)
- abundance as techniques not satisfactory.

Monthly water level monitoring in all bores
for 1 year

Electronic maps shown for the lake.

H_p is 0.8 m of clayey sediment
- severe slumped depression.

Water Table 46.0 m on west side, 44.0 m
on east side.

Same flow pattern beneath the lake.

Water flows up into the lake and
the movement out of lake.

Water Budget map shown.

April 77 - March 78.

Groundwater Inflow - 4.49 ($m^3 \times 10^6$)
per year

Runoff - 2.04

Recharge is a large of lake - 0.12

Outflow (Groundwater) - 1.06

Evapotranspiration - 5.87

Account for to be
0.8 of per year.

Balance in 6.65 = 6.93
IN OUT
fair result.

Low Chloride on east side 50 mg/liter.

High - 5.5 mg/liter and 250 mg/liter.

Chloride Balance: - one to check water balance.

Runoff 11.5 mg/liter Chloride.

8

Wellness from Protection Dore
is only affecting the lower part
of the flow system - that
which passes under the lake.

Probs. loss at base of aquifer

⇒ Allen continues effort of
wellhead on lake as they to
be much less than the 2.0 m
predicted by computer.

Consider the other winter lakes of
the program must be largely
to have a similar ~~effect~~ effect
on flow system.

Early fall lake may have different
outflow system - as water
from the Granddags.

Pressure fed ^{surface} stream fed into lake
from the center - down to
at the surface.

9

Portman's loss have their spreading
in the lower $\frac{1}{3}$ of the aquifer.

Monitoring of Lake Chaparral has
recently commenced. The lake
in the program should be being
monitored this intensely.

Sun
RR APR 79. Robert Matheson

Ray Clayton

Dr. Olson et al. Brian O'Brien

Allen
Log of water from DCE to 14 H
before 2nd lake playing of the drought.

Robert Hedges

50 ft to 0.5 ft. R. & R.

and the shore - Channing KH.

"Forest Water"

9 lakes etc.

|| KH Play - Western Lake Application for
KH of Lake - 5' elevation -
Bridges & Bids.

S & F D

But have suggested and to be a Chlorine swamp

0.5' - 15' in of overburden.

3 known names of HIGGINS

1. Doyle Ridge
2. Shaker quarry
3. Ridge side.

Plan Trenching

Should investigate overburden
input from overburden water
But a network set in a road
for materials Problems if not
is removed?

Significant - large area of open water
because of decrease of red bed now

Consider Haden - ground sense. Most
more lakes ~~about~~ in open water.
Remnant of a ground water.

Forest of Tule ??

Mallin ^{ganga} of overburden stained black
with blood

Co. Bellmore S.C.C.

Des.

Dr. Elyson Quarry - Dr. W. H. Keith

Local Malaga fossils.

High part mostly - problems
with mud beds, structures etc.

Cherted breccia "inter" in the lake
(except from Kennedy)

6 months.

II Biogeographic survey of Lake Jansky

— Phobos?

EQ I of 35' - highest part of
Lake Jansky.

But spent at 0.7 (0.8 - ongoing)

Western Hardhead sand Pet.

1. MESA whole community
the 12. stratus referred to on page 77
of the Longest then agent ←
2. → Independent body to experience
BSPS Page 19.
3. Prohibited + extended my
for removal.
4. Prohibited number 2 introduced +
Bill to form Hardhead agent (Hear)

— that any further should be killed until
those animals have been completed.

Grandfather Resources of the San Coastal Plain

Proc. of a Congress.

CSECO Division of Land Re. Agent
1996

30,000 gal / day. — 200 hours
200 20-30

1/2 to 4 treatment per
1.65 in total of prod.

Total 8.6 200 x 200 m.

1:1 scale

~~481.1~~ + 266.1
~~505.8~~ 284.5
~~24.7~~ 18.4

1:2 scale

510.4

588.0

~~Barnesville - Freshkill 000.0~~

~~Pyramiding 000.0~~

~~1/1 Scale - 100 on left margin~~

Tues 8 MAR 79

0900 hr. Owing knocked.

Acbe on NW side of H-Hill.

Black Tern 15

Yellow-b. Sparrow 5

White - faced Heron 1

Worm-eating Warbler 6

Point-scaled Warbler 16

Shore-scaled Thrush 36

Babcockia littoralis and Plat. (50%?)

small area (a few)

→ Spring Lake 70

Black Duck 29

Black-fronted Cuckoo 3

Sand Kestrel 1

Red-bellied Sapsucker 1

Felton (little or Virginia - the latter)

1 ♂ Chestnut Tail.

Plains 63: - 18 mil. (Thyphlocyba)

Plains 63: 18-20 - parsons

Turner said even mostly dry at end of summer.

Little Jags over it, beginning

water ground is a minimum.

According to the farmer the swamp must
be V. low much as it is now, with
a few more poplars and a good
growth of reeds. Around the edges
and planted strawberry trees. Some
planted oak shrubs like the others -
some given up on them.

Water depth generally ≈ 0.5 m.

the ground water depth for them etc.

Farmer has seen flying this morning (≈ 5)
on his lake, also yesterday saw White Tern.
Saw a Jackal bird in near vicinity
in February.

Water usually drains out by end of
December (is in grass of ex. swamp
- 25 miles) and present depth in these
grass is usually great winter depth.

Final 0955 hrs.

Gordon Turtlet

1115 hrs.

37 Red-c. Blackbird feeding in shrubs
and a v. yellow
water

20-25 Red-c. Blackbird

1 Ceryle
Common

Shore Gull 136
Jen

11 Phalarope

100 Black Cormorant

5 Phalarope

7 Great knot

100 Red Cormorant -

60 Crested Tern

2 Pacific Gull (white)

1 White-bellied Sea Eagle (white)

5 8 Chestnut Teal.

15 other Teal (9 Chestnut and some Grey Teal)

4 Red Egrets on est. side of bar

3 Black Egrets on sea side of bar

24 Sandpiper

5 Red-c. Blackbird

1 White-c. Sparrow

Small flock of Noddies flew overhead.
 Many like Gulls
 2 Large Red Cormorants?

2 few hundred (Little Red & Little Black) Cormorants
 1 Darter

Islands

Roosting flock of approx 200 Bonaparte Gulls

40 Herring-like Gulls

2 Long-tail

c 15 Large Red c.

Giant Cormorant

1400 hrs Slightly > 42 ppt hypoxia

Temp 18.0 °C at surface

14:15 hrs Sal > 42 ppt deep & bottom

Temp 17.7 °C 1/2 - bottom (300m)

Under cliff face where more runs
 in to lagoons.

Water sample taken at surface.
 500 m from base was
 49.0 ppt.

Torcelup Swamp 1650 hrs.

small gulls (Many sp.)
 Little Black Gull

Red-tailed Tropicbird

2 Skuas

Black-bird?

White-bird.

WED 9 MAY 79

22.4 29.6 Tudy

0830 hrs

c 6 W/H tern 7 1 L.P.C.

+ c 6 white-headed tern -

feeding in stream on S side of road -

Chelonia observed many remains of larvae -

(c 6 with strong gnatcatcher etc.)

Terns used bits & with stream in full of larvae.)

Tocalup Swamp

Terns near the gully (you can see
abundant in the past 15 years (as long
as 6000 terns here) was 1969.

Shot 0900 hrs.

~~Shot shot~~

lost

Kingbird?

1 ♂ Shearwater + 3 ♀ in tree.

P.C. conditio.

1 W/H tern.

Gray Tied

Small white.

3 small black.

c 6 Black Duck

White egret

2 28 Pigeon

1 Marsh Hawk

Black Phalarope

Scaled Plover

Gray Tied

flock of c 15 duck, of which 1 year 8 were
♂ Shoveler. Others gulls. P.C.

Whombe Swallows
(33 Shoveler
(11 ♂))

Red Vulture

Gray Gull

New Holland Kestrel feeding in Lake Herson.

Brown Kingbird

P.C. conditio. and feeding in 16 M. embolus

flock up to 40.

1045 hrs.

Birds caught 0.5 m depth - surface only.

Water Temp 15.9°C

0.1 ppt

Had early dinner, then set out
for Mallets Swamp at 1745 hrs.
Collected frogs there - ~~Hyala edulis~~
Hyala edulis. Preserved one
spotted on brown at back of thigh in
some species. *V. cinnam* in edge
clumps in shallow water. Calling
continuously. Only one other frog
with heart - lower part but
similar to *H. edulis*. Not
abundant. Specimen to be under
ground (or better) in damp area.
No specimens located.

H. edulis specimen preserved
in 5% formalin -

None but to den west of
Tooeys (the one with thorns on
it this morning) Scooped out
many *Cherax* sp. Preserved
in 5% formalin for identification.
Back to Mallets Point - end of day.

THURS 18 MAY 79

Mimosa Swamp. (Thompson Delta
Fog swamp)

White Sedge - bucket - snakes
1135 hrs. Temp 16.4 Sat. 0.6 ppt.

Frogs collected here.

Hyala edulis

Hyala cyclogastrum - phlo [4:18-5A]
Crisis submarginata (?)

Also *H. edulis* in *M. edulis* frogging

The swamp. Also *H. cyclo* -

The single *Crisis* found was in a sedge.

There are about eight swamps with frogs of
M. edulis ("Sedge") and *B. b. b. b.*
black and red.

Only bullfrogs in 3 LPS
Some *B. b. b.* in vicinity.
Notonecta in water nearby.

1 Black Heron over Mining Swamp
 (over a number of the mining swamps
 are suitable areas of open water)
 Also 1 Black Swan
 Photo 54: 6-8 of one of the smaller Mining
 Swamps.

Candouring Swamp.

1740 hrs.

White-gull Shrike

44

Blue-billed Duck

Black Swan 0450

~~Black Duck~~

16 Shearwater

Grey Teal

Took photo of
 been out of
 pond since behind
 swamp.

Black Duck

6 New Lark

small snake

1 Banded P.P.

Coot.

Little Red Cormorant

2 Black-bellied Stork. Fred 1845 hrs.

Max Williamson? see 1st. Wildlife Office
 Well of lake is serious.

Other half made for pellets growing in
 1900s. Filled in 1918 - nearly

low since dried out in 1954

only to Max's memory. Resume hell

Still continued work in 1969 (long story)

Said that Paddy Lake is Lake swamps.

Approx 2000 hrs. Checked Jigot Lake

Swamp on south side of road to Youngs
 Pool (from Brown Bay). Walked to

back of pool in the swamp although could
 hear them. Found numerous frogs

on open paddock & in road near
 nearby. Cattleman dump - numerous

new stores during the day

Speeds 5360

Went to Youngs Pool

3 specimens of
 Lymnaea stagnalis
 1 of Helicoverpa sp.

(28)

383 at
bank.

Thammasong Park Spade 5377 km
Found 2 frogs (same species) on
approx 50-100 m north of pond
area on north side of road, west
side of bridge over Pothong.

One of Heliconia albopurpurea

— large male with spine on hind legs.
Bamboo-like grass on the road of the
Thammasong Bridge!

APR 11 MAY 79

Found plants of Heliconia albopurpurea
and of Limnodynastes obscura.
Plants 64: ? - 16 inch.
[64:13-16 inch]

0950 h.m. Chilled lake on Thammasong Hall.
yogi. There were three
11 Yellow-c. Sparrows with a
black one. (+ 2 Pine Sitts)

0955 h.m. 64:17 : Zosteris coccinea
[64:17-18] 64:18 : B. barkeri

(29)

Cardinalis Swamp 1000 km.

1 White-bellied Sea Eagle.
White-bellied Sea Eagle.
First-bellied Sea Eagle.

Bombus mellicus (?) — specimen taken
B. barkeri 3 11/10/1979

Crematogaster submarginata (?) collected
Myio. cyclophorae found (eagles)
Myio. submarginata near (large)

Tiger Sucker (1 km)

Tortoise shell (Found and cleared up)
2 Saw several other ones.

9 13 Pelican

Black-capped H. cat.

Red-capped Plover.

Grey Finch

Yellow-bellied

Red-capped Finch?

S. barkeri

Lo. P. coccinea

Yellow-c. Thornbill

Wren

[64:19A-24A]

562 km. 2150 km.
Mullen Point (direct) 596 km 2230 km

Collected frogs from either side of
the road near Mullen Point above.

Three small frogs they found brown
and which appeared to have a low
"squeaked" call were collected.

~~One of these frogs~~ All were

known out to *Pseudophryne*

(large-eyed pupa with ventral eye,
has not called, no orange spot in groin)

swallowing both absent, frogs white,
belly badly mottled in black + white)

All three had two pyglasses on back
indicating *gauntieri* (Main) however

all had some faint orange spot and
the largest had orange markings!

According to description of *occidentalis*!
How come? Does it come green?

Hybrid progeny?

Two other frogs collected from brown
leaf green light-pinked 40-40-100-
type call at R.W.'s place see,
continuous call. These

known out to *Heteropoma* *eyrei*
(on basis of "dominant note")

but call of *eyrei* is a "long low note"

No pyglasses weak on either. Larger
than other *eyrei* collected (absent

on some days). Could have
been a mottled *H. inornatum*

— would be the right size.

But throat were not mottled brown.
and no black spots on pyglos.

What are they?

Hylo. adelskindensis also collected here.

— also had back markings of *pectus*

known in Plate 4, second row,

that from the left in "Main"

(34)

STAT 12 MAY 79

Overmap Lake 0930 hr

Wood Duck 2

Plum Duck 1

small lake.

Willow Warbler

P. Lark. fly over.

1 LFC

4 Black Duck

1 Swallow

In open lake with fringe of *M. cuticularis*

1 BC

2 Gray Teal + 4 + 7 (23)

34 28 Dumbler

Red-bellied Flycatcher.

6 Loon

1 Black Bear

2 Red-capped Parrot.

Faint 1028 hr.

34 1.4 ppt

Temp 16.6 Time 1050 hr

Water depth at site 0.8 meters.

Druck sample.

(35)

Fans of *M. cuticularis* and some
Hole (flaring) etc. behind.
High collection near in cages.

Tests 15 MAY 79

Lake Chilling

Lake Depth 0.46 m.

Temp. 12.3 °C

Sol. 16.0 ppt. Time 0855 hr.

Druck sample used for Jager.

Boards out. 2.4 m / 3/4 of way between

by check structure and bridge.

> 17 White-eyed

Gr. Teal

Common

42.2 35

Polina.

(36)

Two 15 Nov COND

Wanawana Lake

Time 10:20 hrs.

Depth 0.40 m.

Temp 13.7 °C.

Salinity 30.6 ppt

Bracket sample sent to Jager.

Shack Swamp

(Marsh)

1205 hrs.

ES: 1A

Plots 64:2 of soil cores.

Grass Lake

Time 15:20 hrs.

Depth 0.10 m.

Temp 20.9

Salinity (50:50 dilution 45.6 (23.8) ppt)

(37)

Money.

Two

Harriet. - Home

\$7.58

1.10

\$8.68

Li:

Home - Grand.

Cover.

0.94c

Harriet.

Dulley

Land etc.

\$3.28

Harriet

Production - Harriet (2)

\$3.20

Jim

Production - Land.

0.60 g.

Jim

Production - Home

\$10.00

Wagon 10th

\$28.00

TOTAL PAID

\$54.70

1/2 \$54.70 = \$27.35

Jim PAID

\$39.54

Harriet PAID

\$15.16

Thurs 17 May 73

Left Boggy 0710 hrs

Ignited Chest Machine at Aba

Knollers - 1.3 m left each

bank (bank is above surrounding

area) Plot then [65:34]

low - White-aced Honeyeater

white winged but a R. vehicle. (0830 hrs)

Lobe Tealery

0850 hrs.

Depth Gauge 0.69 m

Temp 14.6 °C

of Lobe Water. (2x = 27.6 ppt)

Bucket sample at SE corner

of land around surrounding area.

> bankside Banded Skiff

> bankside G. Teal

Blackbird

Swan

Plots 65:34-6 mil. (swans)

[65:34-6A]

1005 hrs Fire Whit-bellied Tilted Crabbees

feeding in Banksia prunites -

Lobe Tootin Reserve.

Lobe Tealery - DRY

Plots 65:7-8 of lobe soil

[65:7A-8A]

Lobe Tealery - DRY

Plots 65:29. [65:9A]

Lobe Tealery - DRY 1150 hrs.

Lobe Gorge

1530 hrs Lobe Water Temp 18.0 °C

(4x:1 = 31.75)

Depth of Sample = 3 cm.

> = 1.27 ppt.

(40)

REC 18 MAY 79

Lake 1000m

0830

Time 0915 hrs

Dry 1000m 0.84

Temp 10.9

Sat. 32.3 ppt.

Black Swan

White Swan

Grey Tern

Shearwater

Silver Gull

Red-capped Duck

Black-fronted Petrel

Red-necked Stork

Black swan

L 13 km

7 Yellow-b. Swallow

W. T. Hawk

small birds

1 Dove, 1000m, 1000m

at 1000m

Qualump Lake 1105 km.

Dry (from 1000m)

1000m (1000m) 1000m

1000m (1000m) 1000m

1000m (1000m) 1000m

1000m (1000m) 1000m

(41)

Qualump

1730 hrs

1.87 m

0.87 m

4.5 ppt

15.5 °C

0.4 m/sec at surface

Thompson or Thompson 100

SAT 19 MAY 79

Left Penetration to Phillips to 1000m

then Bear Rd to Lake 1000m

19.8 km from 5000m Hwy along Bear

Rd found "Bear" hole in road

- 1000m contained fruit, collected

fruit and sample of wood

mostly *Podocarpus* ^{*brachyphylla*}

P20 - 65:10 (Nakai Run or)

[65:10A]

(Nakai: S.D. (Hopper))

Sun 20 MAY

Jendry Lake

0.77 m dry

17.6 °

0.7 ppt

Time 1510 hrs

Malla Lagoon Wed 30 May 79

1305 hr.

E. nalis

B. littoralis

M. tenellus. 65: 11 + 12.

57. juncissis

Turt.
 ~~Warren~~, Green + Green woodland behind.
 Warren Maggie + some juveniles.

Fogo head (see page) Criss?

Wrens

Thornhill? (Woodland songster)

Cock phe.

Heard a (songster?)

Saw 3 Larks

Swampie cloud looking in from NW corner - 1400

Tiger Snake

Long-eared Tarsier Skull.

Panthera pan.

Lost photo of Mollie - 65: 22

Found 1420 hr.

Warren section
 Taro - Pouchi Gophers. - Oct St. Lickwith
 (cut side).

65: 23A -

→ 69: 13 ind.

Thurs 8 June 79

Thornhill Thornhill - 69: 0950

Then down to long flat without return
 ~~back to Thornhill~~ Warren (192633 + 12049)

Abing photo - then middle down

and Mollie Lick, also

Perdiddle strange war. Photo

of "King song" + 9 little song

on return trip, also Sargentia

R. Photo; other areas also

taken to end from Thornhill.

Small of Gophers, etc.

Photo to show other "Lobby"

photo on way - "Emileth"

to lobby. Photo of

Yellowish bird a Mammal.

Modern Warren road up Mollie

2332 + 3345.

Then flew back to Jarabul along road.
 Heard them (4 mks of 700 m or so)
 and 1 with 400 m or so.
 and heard them (great sounds)
 - where from.

To do.

1. Varying of heavy plus sounds (etc.)
2. Parula Phoebe song.
3. P. (Sp. 1) - plus song.
4. Emerald - song with
 observation (VCC)
5. Phoebe - ground click on veg.
 and actually movement in
 water, spring + summer.
6. Phoebe - low like a Red Phoebe.

Tues 21st Aug 79

Wandering Lark 2. Black-faced Cuckoo Shrike
 1450 hrs. Coot 1 + 2 + 3
 Magpie Lark. 3
 Jay, red 20
 Black Duck - 1 3

Black Duck - 1 damaged body found.

1 Jay Tail seen flying singly.

Looked down hills for Jay Tail - and saw

- saw plot. 69:14

Masses of Phoebe on the stream

(great phoebe) looking into lake on North.

Phoebe abundant in lake.

Two Phoebe

W. Lark

Black + white B. (White winged T. etc.)

1 White-backed Swallow.

Black W. Lark

2 Blackbird.

April 1.06

20 percent heard.

1 Jay B. etc.

1. Below the swimming
1. Red. w. Robin.

Final Survey at 1615 hrs
Wet. Sample taken by bucket
on SE corner of lake at 0.3m deep

1625 hrs. 3.6 ppt $\approx$ 12.1 °C

Water Sample taken from 10m depth
just west of T 24831

6.2 ppt + 16.1 °C 1720 hrs.

Sample taken from exposure on the
opposite $\frac{1}{2}$ km west of
St. N. reserve 24831.

5 cm of flots over swimming.
2 Gray Tule and 2 Pink Shill in mouth of
the west of exposure. Shill merge.
to broke reserve proper.

WED 22 Aug 79

"Dendro Lake" 0730 hrs
16.6 69:15-19 (C. 20)

Black Duck 2 N. side lake
Gray Tule
Shill
S. Gray Tule
Plover
Banded Shill
C. 2000
Red-eyed Vireo
Shill
Pink Shill

Commoned electrons with around center
of 2 lakes of the lake at 0850 hrs.

Pink Shill 10 + 2 + 7 + 3 + 2
Red. Shill 1 + 3
Shill 2 + 6 + 4
Gray Tule - 10. + 55
Shill 2 + 6 + 4
Black Duck - 4 + 27
Shill 1 - 1

Pygmy? mated up very close
 - contains some ~~of~~ mostly
 of blood evidence (from ~~Amphipoda~~
Gammaridae?)

Also some Chama? a chama

Porter's Sub. 25 (26)

Small Grate - Chama

1st Grate
 + 1 Grate

Island on NE corner of globe

Old Sun Nest - 1 + 4 + 25

- 30 all nests

1 + 1 + 1 + 2 + 1 + 3 + 2 + 1 + 1 + 1 + 1
 0 eggs - 1 + 2 + 2 + 1 + 1
 - 1 egg - 1 + 1 + 1 + 1 + 1
 2 eggs - 1 + 1 + 1 + 1
 1 new chick - 2

Also Grate

with

1 chick - 1 + 1 + 1 + 1 + 1
 2 + 1

Island 180 m long
 and 10-30 m wide
 may 0.5 m or 1 m wide
 New growth is Salicornia - Arthrocnemum

All nests on ground

= 55 sub Grate (+ 1 dead)

Dead + living small trees are Melaleuca-like
 with Grate leaves only.

Red-brown Grate - Grate

2 Grate Grate

1 Grate

5 Grate

1 Grate Grate 3 Grate (Chama)

1 Grate Grate with 3 (Chama I or II) Grate

Approx 100 Grate - Grate

Grate type Grate Grate 5 Grate Grate
 on Grate of Grate

White - female Chel.

Baths subside at 1445 hr

Water sample at 1445 hr on west side of this section. Water subsides.

Taken at 1200 hr 20 m from shore in 0.3 m of water - surface sample with bucket.

Temp 11.9 °C
Sal. 25.6 ppt.

Chelids: a sample of Ruppia with Actina but - was flowering - definitely Ruppia, not *Potamogeton pectinatus*.

Shaded chel "Chel 3" - may have been Chel or Actina or some other sp.

Plants - 19
Fucus Nereis

Attempt at drawing ← 19:20

1355 hr WIK 25872 - 1 km. hill

Photo 69: 21-31

1 pc. *Plumula* chel

1 *Chelid* *Chelid*

2 *Ruppia*

Plant.

♀ *Actina* c. *Actina* with rocky substrate also 1 ♂
2 *Chelid* - *Chelid*? *Thunbergia*
(or *Thunbergia*)

Fruit at 1445 hr

Water sample taken at edge of reserve, between 1445 & 1450, water 0.35 m deep - bucket sample from surface

Temp 15.7 °C
Sal. 6.3 ppt

1500 hr drawing 5 along road along E border of reserve
1 pc. *Plumula* chel.

Water along 5 temporary - water flowing from 5 to N over road.

Plumula chel. with open water (bare ground)
scattered *Thunbergia* and *Encyrtus*.

Cont. water sample

Thurs 23rd Aug 78
Late Kookoordini 0810hr

Water well along creek, the sand
then out was like 200m, then
less to make 0900hr.

Sampled on S. side of lake a little
water sample.

Saw 1 Hooded Mittern

~~The water table is higher in Sept
for spring water~~

3 Shelduck seen on W. part above post
S. side of lake.

0850 just N end then under

Salinity 177.6 ppt.

148
2 W
3 G
4 R
5 F

UNR 2219 - 15 km N of Yellowknife.
Date 1145

Water Shute Throat
Yellow planned H. water.
In tank on reserve.

Water into ~~water~~ towards wetland
area from road - No water
present - water from minecourse segment
sampled by bucket - approx 5 cm deep
Salinity 64.0 ppt.

Wetted out, sunny bank of reservoir at 1315hr.

FLE 24 AUG 79

Rocks from

PL 69:34-37.

Shrub

Grey Tree

Black-pinkish shrub

Pink Shrub

Grey (pinkish?)

(Milk?) common flowering.

Shrub about 0.75m.

8 Pink Shrub

2 Black f. shrub

2. Shrub - f. shrub

22 14 Pink - c. shrub

2 Black shrub +3

14 Shrub +2

c 60 Grey Tree +2

0.10-20 Pink f. shrub +2

Shrub - brown Shrub

Shrub Shrub Shrub

28 Pink -

pink tree -

grey tree -

grey

Water sample details from front.

rebut

2 Black Shrub

3 Red-brown Shrub

Darkish Tree

Shrub

Highland Cactus

22 Handmade ? +2

Shrub - Cattle

1 Shrub +1

Shrub of yucca 15 Shrub - f. shrub +8

Shrub 1 Common Shrub

Shrub 4 shrub at 9.55 km.

~~Shrub~~ Shrub Shrub

Shrub 14.5 km

Shrub

Shrub and (Shrub n. 2)

Shrub Shrub Shrub 5' from I. front.

PL 70:2-6.

Grant - Seabirds

all add

Cost Bird 0 egg - 1st + 1st

1 egg - 1

2 seen with 7 eggs.
floor < 50 cost

Egg Tied 2.

1 seen with 1 egg

Old cost note up to 1 m. above water level.

100's Egg Tied

20 x Blackbird

20 x Blackbird

Black - 2, Dist.

1 seen with 5 Claws 5 eggs.

* 1 Pair Forked Shrike (1st)

Blackbirds also

+ other eggs

3 Forked Shrike - 1st

- 6 encounter.

4 Bl. Sand Shrike

Seen from shore at 1500 m.

Clear Water Logans 1445' L.

2 Blackbird

1 Greenbird

2 Gray Tied 13 + 4

11 Black - 2, Dist. - 10

5' Bird Still

PK 70 = 7-8.

Photos 6 + 7 presence of NE sector of Clear Water Lake.

Shrike encounter on all 3 later today.

27 Black - 2, Dist.

Seen from shore at 1500 m.

60 m of mudflat to shore.

Also many - water fresh.

Carragee Lake - ingested 1545-1550
 - dy - p/bk 8-10 taken
 from SE corner today 70:9-11 (1/2 E side of lake)

Carragee Lake - ingested 1610-1615 L
 - dy - p/bk 11-13 4km
 70:12-14

Sat 25 Aug 79 1215 km

Kalamie Sange Farm - Kalamie Rd.

Pat Bill

Wood Duck

Red - c. skink

Black - S. skink

Red - head skink

Long Tree

small fish

Robbie Sooty

Leon Schneider would like list
 of birds seen in Kalamie Sange area
 - sent Gendall

done 12/9/79

Mon 27 Aug 79

WNR ↑ 3350!

Start 0725 L

2 km's from on lake before start

Monks about level 11 mgl before

6 Red - c. skink?

70:15-17

Photo 14-16 of lake from E side

1 of Monks seen with 8 Black I. ducks

Shaded Ponds will grow in bottom of area

approx 3 m x 10 m

(60)

Water sample - surface - 5 cm deep.
 400m + 1200m out of water
 $\Rightarrow \frac{1}{4} = 30.8 \text{ ppt.}$

$\Rightarrow$ sample = 123.2 ppt.

Furthest among 0915

WNR 737113 (Dunkles Shale)

See survey sheet for notes
 Furthest Shale 2

Shale - c. 26

Parentonia abundant in part - ~~upper~~
 many crinoid medusae - photos taken 70:13-23.
~~Large~~ Specimens taken - furthest top of medusae.
 Shale of 200 ppt.

Short Sample 420 km
 - 5 cm deep

Temp 18.0°C

Salt 1/4 solution: 26.9

$\Rightarrow$ water is 215.2 ppt.
 "Sun hill" crinoid present to base of this Parentonia -

(61)

26.9
 8
 215.2

Tombs from here
 1645 hrs.

Like water sample

2 Grey Tails
 little (young?) heard

Shale 10 cm deep " (Shale?) - many bubbles
 abundant bright red (Shale?) - very limited
 in appearance.

2nd Lake - 1 p. Shale.

1 Shale - 1st Lake 5-6. 71:28
 This lake is 3/4 covered by sediment. 2nd Lake
 has emerging green.

2nd Lake has a few Parentonia & first medusae
 of "Euphrasia" - blue.

Shale 10 cm deep.

3rd Lake - 1 p. Grey Tails

many "Euphrasia", 2nd Lake crinoid
 also many greenish - red -

Parentonia flowering.

"Bloom" feeding on dark Shale -
 10 cm deep

Shale 34.1 ppt. (set very low)
 from 1800 hrs.

Imber dragon from the Reddy spring to
be a large yellowish - no
green color - probably dragon to me.
Reynolds &

Shark Lake 0925 L.

2 ~~E~~ Plant shut

1 Little Black Lament.

White Lark. - in ~~between~~ Bummer.

1 Black shut.

Panama - Bummer (Red thick?)

Frye head.

4 bushes in bush of water

Projecting together

1 White - faced sparrow

1 Marsh Wren - v. light coloring

Open lake - fringe of Bummer.

Plots 3-10 ~~panama~~ from E side.

71: 9-12

Booked against upper + middle

2 Swagman

1 pair of red-tail? stri in Bummer.

1 ♂ Mont shut.

Frye - at least 2 pairs - perhaps 3

a "black" frog - L. thick?

a "gray" spade? frog

Found a tree at 1030 hrs.

Water depth in center ≥ 2 m.

The number is significant to lakes birds

Two Purple Bay. Bummer and

ground up

Barkie species

Acacia

Agave juniperum?

Whistling Lark.

Water running out of lake SE corner

Type shale is sand

Barkie occidentalis - one bird.

Water bridge when

~~From~~ ~~to~~ ~~the~~ ~~University~~ ~~of~~

Lebe lange is

Bamboo satulaka

beetle by another smaller ridge
and a few striae (cuticularis?)

The seed donated by an Annu, &

"I saws back at the jump line" (see jump line)

Bacterales *Bacteria* *verruccosus*

Barbare Spruce on higher ground.

Nagtorii Lichtensteini higher shell

Pen. D. 1175 h.

Mojingup Lake hwt 15818

Spent 1150 hrs

2 Thick Skin.

Photo 11-15 from SSE side

71:13-17 2 hrs fixed.

$\text{Total Duck} = 10^7 + 10^8$

2 Red capped Parrot perched in Reddenia
17 p.m.

12 Cont.

5 Black Duck

2. Pick - word bank

Wm. Lloyd

Wood-Borden in Mel.

Empire of Barcelona overlaid

i Chubb's Tech. 2

1 per Abstract Fee

Lepomis gibbosus - Bluegill + Rock bass gizzard

Uche Lyph	1300 hrs
-----------	----------

1.4 ppt, 14.50C

0.2 m deep - Dredge-sample

OVERLAYS — 1:1,000,000 WNR Map

1. Randell Islets. Polychaete System
2. Europa " Plucking time.
3. Randell Reliability Contour heights.
4. Highest 6 month zone. [Sails, Coal, 7
Vig. Pinnacles]

5. Land-use

6. Dept. Georges.

7. Visits

8. Settlements

9. Bird data. — Atlas distributions

10. Communities

11. Continuation of surrounding lands (compare with settlements of records)

12. District Wildlife Areas' District
+ RMO's

WED 29 AUG 79

0730 hr.

Coat 9
Plant Duck, 10¹

Black Duck nest at edge of lake on small hummock
spotted from area of ground sparse 1 m from shore —
aggregated to water zone 5-10 cm deep.
Mount of ridge 1.2 m high and
1.5 m in diameter.

71: 18-22.

Plaka 55.00
1 Egg measured 38.35 m x ~~55.00~~
within 3) nearby. 53.90 x 39.70

Base of nest zone 12 km above water level

Top of nest zone 24 cm above water level.

We were looking for a Chestnut Tied nest.

2 Chestnut Tied.

1 LFC

1 LFC + 25

body of Murre then — nest eggs.
2. Shovelers.

Each more paper

Final sheet 1+2+1+5+1+1+1

Charted Tuck - 4 + 1 pr. 1+1+1+1+1

COE - 2+1+1+1

Blackout - 2+1+1+1

Under Menus - (A)

Time 0830h.

1.3m Bottom 13.2°C, 8.0 ppt.

Top 13.4, 8.0 ppt.

(E)

A



Coast - 1+3+2+1+8

Plot Ditch - depth is sufficient water.

4 Common Squid -

1 Handheld

(B) Charted Tuck not - under same bridge type of

in previous Ditch sheet

9 eggs - Red 71:23-24 47.7 x 36.3

eggs 0.3 cm above water level. and 1.8 m from

water edge. Large in front, head with

leaves and large, head with down.

20 cm across inside of down.

Bottom

(C) Top 7.8 ppt. water 13.6°C

1.3 m in depth.

Little Red C. - 1

Large Red - 1

(D) water flowing out to the west.

2 WSP

1 White Gull

(E) Top Bottom

13.5°C, 4.8 ppt

Top Same

Depth 1.3 m Time 0950h.

70

Stream was flowing from E. to the west
 sand like we had come from.
 Pl 23 st B - middle of stream.

71:24A.

New Bird List

Count: 121

Phal. Dist. 1

LBCC - 1

Ch. horned Phe. - 1 pt.

Phal. 24 st (G)

(E) subcity

Time

1005 h

Dypt 1.6 m.

5.9 pp - 14.2°C

4.8 pp - 13.6°C

(H) Both 4.6 pp. 13.6°C

Dypt 1.9 m

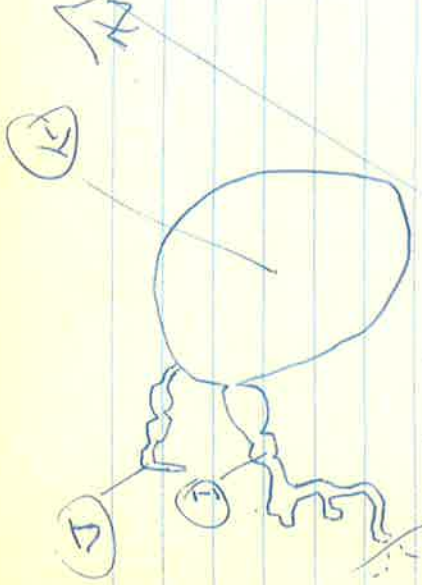
Time 1015 h.

6 Blue Dotted st

2 small probe.

Pl 23:24A also smaller on this morning.

71



New Bird List

12BC + 2

Region of white and

Phal. and water

sides behind up bent from water edge

Phal. B. sp. green + some

N. glaucous to brown

1 white

2 grey teal.

1 Black st. + 1 + 2

56 LBCC st (I)

1 Phal.

Ch. horned Phe.

Phal.

1 Whitey lake

Ch. horned Phe. (LBCC?)

5 Dypt - and 10' above.

Red-capped Parrot
End Lake 1/2 Tuck 12 (incl. 15' (last))

168C + 12 + 2
1 pi shackle + 1/2
1 20 small gauge
1 1 Black Shovel
1 plant shovel
1 145 hrs.

5 Safety
Bottom 6.7 ppt 12.7 °C
Top 4.5 ppt 13.4 °C
Bottom 5.8 ppt 13.6 °C
Top 4.3 ppt 13.5 °C
1.8m deep 11.5 hrs.
Deck to include 1210 hrs.

1305 Large Wooden
7 Culler Spine
Amulet
Bashed Stick
Red-c. Shovel
Red-c. Shovel

Black-framed Shovel
Shovel - red Spine

Shovel walking at 1355 hrs.
Red-c. Shovel - 172
Culler Sp. - 140
White Shovel
Shovel - h. Spine - 1

286 when under
72:3A-4A. 2 shovels shovels. + 1
Pls no 213 extra flying strongly in like that
from the west.

old born shell - like that
41 24 Noct
5 2 Bashed Stick
5 Tuna
Lone & lone birds

Plumbe - 9 shovels.
308 more my when
pity 250 sh
50 Culler Sp
at 30 Red-c. Shovel

Water flowing v. gently into lake
at this point

- 25 Mts
- 5 Black & white
- 2 Powder black

with boat 1450 lbs.

Billions of *Paramecia*

1 Black & white

1 Black & white

3 Eggs in Black & white - in cloud

unknown like 2 g. Tied

2 *Paramecia*

1 White & black, *Paramecia*

eggs 15 Tons.

Water flowing into lake

Temp 14.8
Salinity 2.8 5.0 3.5

Water

Corents Data

Bottom 29.7

Sp 2.9 2.3 is by nearly.

1 *Paramecia* *Spiz*

1 pr Black & white - slightly standing

1 pr Black & white 4 pr. + 1

1 pr Black & white

Amount of water - nearly clear - on E. side.

Black & white 1 pr + 1

1st
Temp 14.0
in
(v. strong)

Salinity 7.7 ppt

Temp 12.4 °C
16.15 hr. Salty 1.7 ppt

Paramecia Sample

70824

BLANK LAKE.

Thurs 30 August 1974

Time 0750 hrs

Water level angle 7:1 = 21.8 ppt.

3 Schlegel = 174.4 ppt.

Depth 0.2 m.

Salinity of lake water = 10.8 °C

c 10 m from water edge
E.S.E. side of lake (end of Port Lake Rd.)

Shore along road across down to contact on hill - S corner of lake. Pond?

No birds or shrubs on the way.

Plot of c 20 (Densetsu 2000) partly in

center of lake. No other birds seen from contact with binoculars.

Frogs (Agalyptis? Lanius?) in nest of big on S. side of lake (middle from contact)

2 Percent partly in S. side

Phon 4-7 of Port Lake 0850 hrs.

72: 5A - 8A.

LARGE LAKE

Phon 72: 9A - 20A.

1000 hrs Contact bird in nest at S end of - over reserve.

1010 hrs.

Birds 22.5 ppt 14.1 °C 1.9 m.

Temp 12.7 ppt 13.4 °C

100 m distance from reserve.

Plot every 1012 km.

1 Contact + 8

9 Key TESSAC #3 8 eggs

1000 4-660 x 3422

Shrubbery (Larix) birds will show (but not big)

Shrubbery was water edge - in contact - over place 5 m above water.

Plot 4 Temp. Not made out of line keys - hence 8

Temp 12.4 Day 13.7 °C Day 1.9 m

Butt 24.3 14.6 °C

Time 1030

1st C-Sail

1 Black Duck

1 Golden Plover

Shops left but birds in view.

78

1 small spider

Plants water still - no flow down

1 blue jay

74 lost in lake spring near on left

2 birds

1 small bird - note

gray bird

Tougher like me (I move) on left side
of river at entrance to Lake George

1 pr. Chestnut Tree

2 Chestnut

Lake house 10552

3 Chestnut 23

92 small bird

2 Robin

2 Tit

5 small bird

18 lost

Med. flying (what?)

White fly

79

slightly windy

Tree 1110m

at mouth

Top 21.6 ppt 13.6 °C

24.3 13.6 °C

Depth 1.1m 24.3

System to be a gentle flow into lake

1 river mouth

1115m

Center of lake - Top 24.7 ppt 14.1 °C

1.85m deep Bot. 24.7 ppt 13.1 °C

Water black - brown

c 10 small jars
2 Black Sun

Beetles in inside of lake
Snake (Husky) 15.0°C 22.4 ppt.
✓ 0.4 m deep.

Water sample from the lake (Qualifying)

250 ml. + 1250 ml.
is 1:5 = 3.6 ppt

3) original = 21.6 ppt
Mid-Tank water at 0.75 ppt - lake water is 18 ppt

But for vehicle at 16/15 km.

X853 853 34.8 km from
Kandahar

FRI 31 AUG 79
LAKE PARAKET
72: 21A-25
73: 2-7

0930 hr. 22 Mth. Lake (16 - 18 ft)
+18
(fair weather clear sky)

One lot near water along with lake over ground
from on lot side of lake.

later to 3 m of lake edge
Penthouse street - yellow - garden 3 ft.

Plots 20-22 along 5 along E shore.
72: 21A-234

37 Armat cor = 100

= 3,000 Bushel Shd.

3 Bush Shd. cor = 40

Plots 23-24 of plot.
72: 24A-25

Plot 24. head of road to lake No. of lake.
Water. = 8 m deep near lake.
and present in original

to water at 1020 km

Plot 1-3 of NE shore of lake from top of which
73: 2-4
Note culture in greenhouse not "cultured" in lake
same - what is "cultured"

Lake Tsching

0.78m

Temp 16.0°

Soil ~~16.0~~Wetland
pond
S. pond
S. pond

1:2 = 15.3

ED Soil = 45.9 ppt

Die 1655 hrs.

Sunk - lost.

WED 5 SEP 79

REBAR LAKE

0930 hrs.

✓ Marshes 10' high to top

drill - E side

✓ Black loam

✓ Black loam 1st 5 shells (Class I)

13

✓ Loat 25 - 50 m

✓ Silver 11-

FIRE 31 AUG 79.

✓ New black brown -
v. abundant.

✓ Black of juvenile flocking on surface.

✓ Sampling - 3 - 2 Tople

1 - 19. K. K. K. on E side.

✓ Small birds

Change of Barnes and Tople along stream
shore.

✓ Marshes - 27 + 2

c. 200

Marshes

✓ Black loam

✓ Mel. amphipods + amphipods in NW corner.
E. side around edge.

✓ Per. R. R. R. in same area - dense stand of Tople

✓ ~~Black~~ 1 Marsh K. K. K.

✓ Shallow - 2

Blue-bellied Duck - 1

Little Pied C - 1

Gray Teal - 25

M. ~~undulata~~ with multiple down feathers

Pile 73:10 are empty -

Large Black Cormorant - 2

Large Red Cormorant - 1

Black frog - L. donatus?

The Ugly in M. undulata

Black-bellied Stk overland

Teal-bellied duck are M.B. hairs for using on

Some M. undulata emerged M. undulata

Plumbed feathers and eggs below M. undulata on E. side - one white frog.
C. few with clumped of down on down of M. und.

1 down nest - 5 inc. eggs
- 2 pldes - Barnes
73:11-12 23 eggs 10-15" in of water under
73:13 nest - under bank of Barnes

Another S. nest - 4 inc. eggs
- 1 pldes - yes no Barnes

1 Pied Stk.

2 Pldes of black thymus? in 35' corner

Pile - dead M. undulata - full lar
73:16 at base of it - in front out of water - broken down

(Whitby Lake)

8 Chas E Blk shell - large - open water

3 Blk - penaeus - 10. side lake

off large M.L. (Appl?) with
of few E. ventris bluish

off some - on

clumps of penaeus & Trypan
east of - dark pressing platform
- Banner

Same M. Kent & Appl. behind

- Red bluish -

FICKERD DULK - 11

with c 100 P.L. Feer - Dul

Handwritten

(SW corner of lake)

large bluish 87 (morphology like)

- and oval -

73:20-25

c 15'-20' - lake

at 3 mostly - some plates

Phragmites (2) & Mallard c 4

Drift only c 1300m

Drift at edge c 1400m

WED.

LAKES CASCADENS

1630 hrs.

Trypan over 85% of area.
some flying M. rept. & E. ventris.
also a clump in water.

Red bluish - Trypan - sand.
Coat on open water -

Blk - b. Blk. overland.

Section 3/3 of wetland area - fairly high & dry.
end part of this used for water filling, houses
gate, etc.

Pe-nettle eggs in lower area.

2 Blk. about.

Light blue - Common Pet

2 Blk. Sun

15 Blk. Shrike 13 eggs

60+ 74 80-90

4 Chas = shrike's

Low growing fern as well as grasses etc.

3 *Hebe*

A Little bird comment.

Remind, 1200 hrs

THURS 18 SEP 78

0900 hr

W. by creek (W. T. T. T. T.)

1 LPE 7532-6

1 Deer

1 Cat.

M. *republicana* & *E. virens* overhanging the creek
E. *virens* flowering - (early in day)

- long legs plant abundant.

collected *Stachys* plant of creek going to be.

1 pr Long Tail

1 pr White throat

1 pr Short tail

Photo 2 - W. by (it from east end (at bank))

75:2

75:3-5

Photos 2-4 of the 1 m *Stachys*
depression on S. side of W.C. - looking SW.

Also frogs of *E. virens* (2 young ones)
some *M. republicana* + some *Stachys* (young)

Flowering *Stachys* in the depression

1 Long Tail

1 Short tail

1 LPE.

Summary country has abundant *E. virens* & *M. republicana*

Veronica filiformis ssp. abundant.

1 *U. H. H.* on bank

Red *Stachys*

1 Red tagged plant

2+ *Stachys* *Stachys*

Singing? *Stachys* - observed fairly on flower.

all in the flowering *E. virens* at water edge

Photo 5 - *Stachys* over *U. H. H.*

Grass 1000 hrs

75:6

Robert Gray Peak Enlist

1250 hrs.

456 control Shellbank

hundred of acres further east.

Shellbank feeding in ^{approx} 2-5 cm deep water. - unknown west growth over it

(birds walking)

Some other birds also. (under etc.)

Swamp on Murray Section 287

Start 1330 hrs

M. trichoptera swimming on cleared strip

- Grazed by cattle.
 photos.

Retreat to 12707
 [Left Duck, Peltobates]

Notes: 75:7-25:

Long Teal - flock of 50 slowly moving.

1 pc -

Shore Duck - 3 heard singing

There on cleared bank are E. water. ground slopes up from swamp to edge of reserve. In wet year whole of cleared area would be under water.

Coast.

Shellbank - 1st - down in clear slightly done off - Evening Heron.

Water to edge of veg - 1st. r. out P.T.

if there some swamp - new grass each year.

1 Hairy Kite overhead.

1 W. Plover

2 Shore Duck -

lots of duck weed in swamp

T. ardens?

M. blanda

Recessus distinct

Final 15-10 to -

16 eggs
48 x 35
44-50 33-38
51 x 35
47-55 m 34-36

Cast

20 ft

dark white

eggs of v. sub. brown

5-7 - number

48.8 x 34.9

51.7 x 34.7

48.3 x 34.5

49.7 x 34.4

50.0 x 33.9

49.5 x 34.5

Lowest nest - peak of M. blanda

- 3 eggs

- 3 eggs

Peak of plateau

in front of M. blanda

Fluffy hemlock - regular rocks - base

1720 km

Temp 20.1 °C

Salinity 2.7 ppt

Droplet depth 0.4 m water

Open woodland of Merri, M. guineensis

Zugun B. ardens N. blanda

Araneus pulchellus, sedges

- grazed

Zugun B. ardens

B. blanda X a number

0845 hr Wed 19 SEP 79

77502 - Woke (near P. Bird range)

1 LOC

2 ♂ Wrens.

Krus birds

Greenback

Red SKW.

Shelduck 411

Eggs 6+

Shore-nodded Tit R

W. P. Heron

Little Green heron

Common Sandpiper

6 Pheasant-birds

Corvid

Whistling Tit

Apparents have been covered with vegetation
stand of 2 or high shrubby (Mel.?)
much of which has been cut, being
replaced by open water in deeper areas
and *Arctostaphylos* in shelter areas

That bird ^{note} ~~note~~ Wren appears

v. yellow in green areas

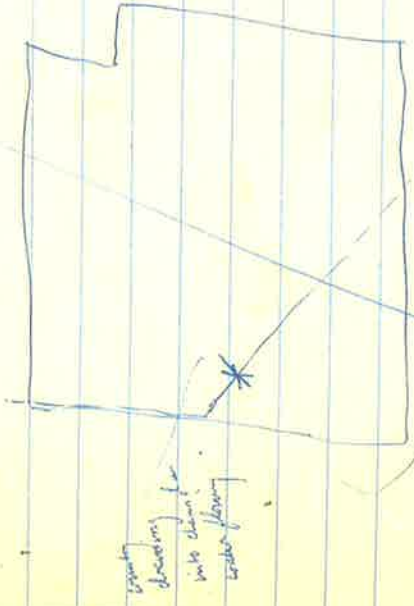
411 ground under Mel.

Sketch. Tastes salty - looks really country.
- a chocolate area.

deeper shaded banks around deeper water area
on E side. - possibly all *M. regalis*

2 White-S. Uak.

Winged limits on the water surface.



some that photo of the Mel? are badly - exposed.

9 Saw about 2000 crabs on beach
 of deep water area on E side.

Black shell 4 + 9

Long Tail 2

~~Others in Shallow~~ Shallow

2 Silver

11 eggs

2 small pots

many more seen near

beach of 8 class etc. Shallow

Water 0.5 m deep - Rugged

In heavily shaded on N side
 is fresh water (holes) + to depths
 + to 2000

Trace on N side often (not marked.)

Beach to north of 1045 hrs

Set of sample: 7.4 ppt.

0.4 m deep - surface sample. on E side
 of deep water area

2. Cycles of water? sand edge - heavily

One Black shell with 1 class I directly in
 the stream where the road bridge crosses on
 the way into A 24739 (see chain link
 out of deep water)

2 Eggs on A 24739.

Big shell - 1230 hrs -
 Rugged

1. Low water early part of beach
2. Rugged - work to when the head of the eastern side
 of Big Lake, and a small area around
 Discharge removed.
- 3.

1. *Chlorophanes* etc.
2. *Chlor. ant.*, heavily grazed
3. *C. junco*
4. *M. hutchinsii*
5. *Agrostis plumosa*
6. *M. hutchinsii* + *A. Plum*
7. *Blue salt* (Chlor.)
8. *Regulus* *pygmaea*

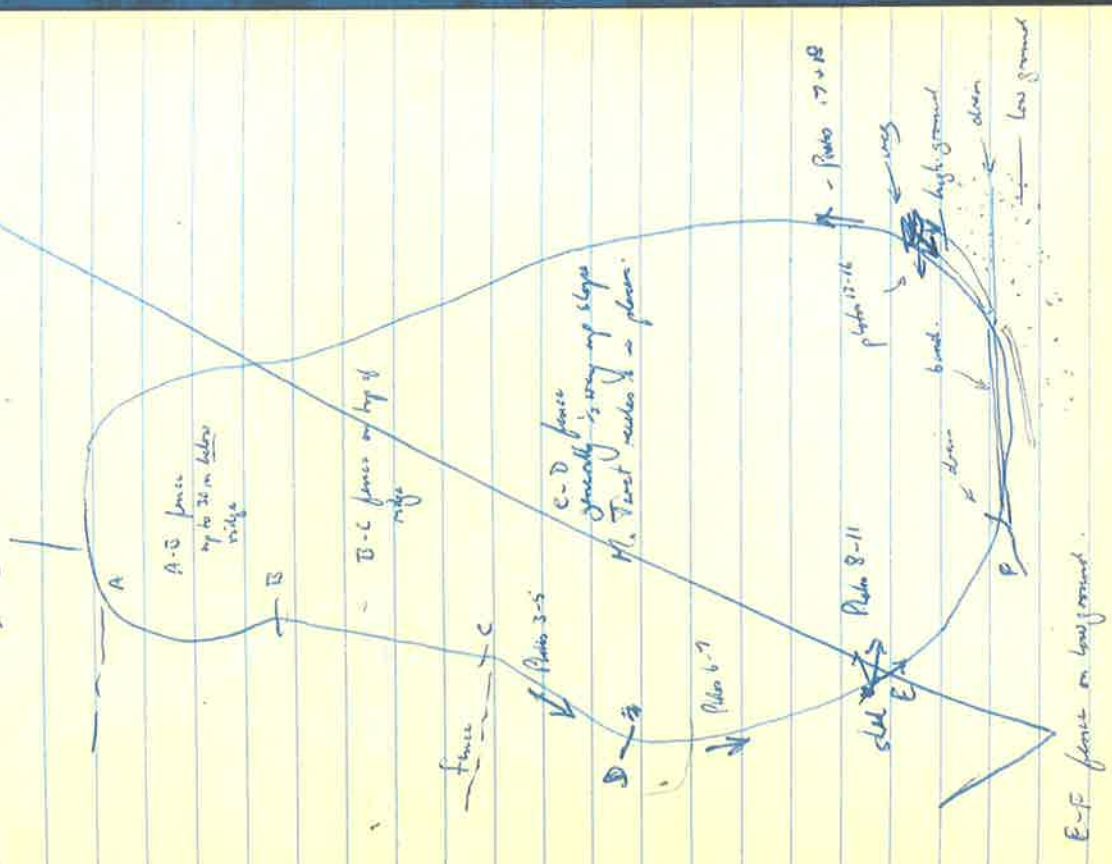
Shot 1230 *Big Lake - Mary Swan*
Plots 14:2-20

Use E. side 17 mgl $\rightarrow$ E. edge of the *Carroll*
 boundary
 Generally a high ridge - plot together.
 generally 10-20 m inside fence

2 seen with 1 small *Chlor. I. agout*
 2 with.

Plot 14.2 only 5 along w fence
 1 *Chlor. I. agout* - 9 *Chlor. I. agout*

Thorn, Tangle, some N. *Blackberry*
 & *Blackberry*



Tree on block on S side of lake is
E. arbutus. [A. glaucum - by tree]
M. pumila M. rufus. N. phlox.

Jay Tree

Bank built up along S. edge of lake
west of stream.

Barberry & A. flavum on ridge

Photo of house on N. side ridge

Tobacco still with much pollen.

20 S. in Dicks

2 Photo of old house

Longer tree } Tople
Red Shale

Grass house (not glaucous)

Lake Long 1430 hrs

0.5" water 50 m. from edge (NW corner)

Temp 22.6° Sal. 2.4 ppt

Top of bank

Edge of the water

Photo of lake

1538 hrs

Photo 20-22 of lake

See note for description (Panicum glaucum)

All the rock clumps are Tople.

Chloris subulata and some P. longifolium

and edge.

1 Photo of lake

2 Photo of lake

Some P. glaucum-like

1 Photo of lake

2 Photo of lake

some *Phanerozoa* in upper level - low.

Could probably rise 2m within overhangs.
Another fog queen.

Play spots of *Chelonia* over NW corner of lake.

Plots 23-24 - 17. knots on west side of lake (July 5)

lots of 17. knots growing on exposed plots - up to 0.5m high!

Plot 0 - Shire's railroad area.

Plots 1-4 - dots from NW corner.

Under single - SW side 0.5m deep
dye (concrete)

Temp 20.9 °C Sat 0.5 ppt.
Time 1655 hr.

300 m from road to SW corner of lake

Sign 100 m from road to actual drying area
(not several from road)

Plot 5 - top from road
(drying phase)

Drying France

095 35.273.

Let him know about morning
- when will do it, also will survey.

John Neel - sent to dry lake
on young dry next year
- please check.

No return this year.