

Finalized indexes, received
6/2/2014 and printed (+ send
to C.I.)
on 17/2/2014
J.

Grant Pearson's Field Notebooks

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54

Depth Gang Survey

16/10/13

Cases Lead Common water

Flaming over road.

Cases Lead Soil Very High

2.26 gg of

Yakul

Shaded to 200 m from start of road.

Shaded to 400 m from start of road.

Top 11 cm above water level.

30 cm deep

RHS (Wt) of road

Just west of large gully

Bridge at distal gauge discrepancy in

old gg 2.00 Lead 1.08 (old)

(2)

Jendacullul

2.85 m. 9.03

26410 ~~2.85~~ 1.02

(3)

Phone.

Ravi Hotel 038 381005 40°

Carra Park 038 381050 70°

Home 50

Overnight. Esp Hotel
35.00 Twin

(4)

Dunn Rock 17/9/93
0845
14.4 kms from to Old
Newdegate Rd

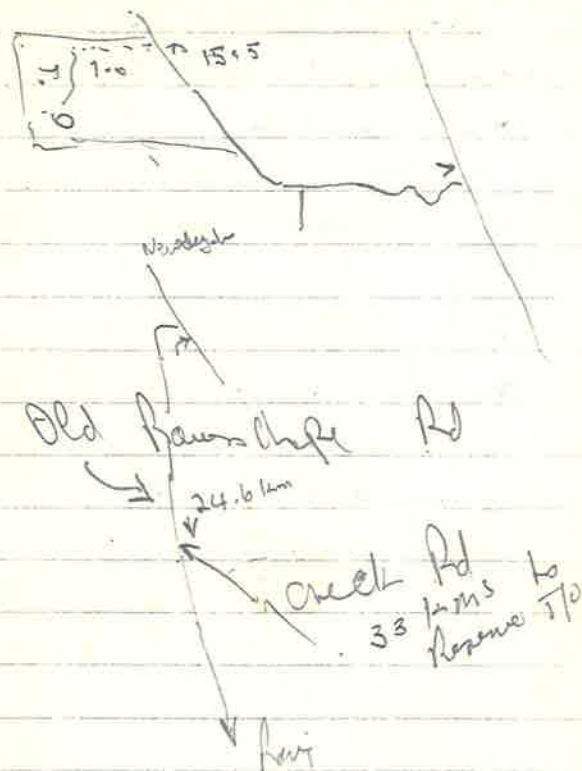
15.05 kms to Turn off
Dunn Rock^N Sign
1.1 + 700 m

Post 20cm deep water
9 cm above water level
35 cm high.

Post 3-5 m from sign on R.H.S.
Bennett^{TS} Lake.

HWC 12
MUS 2
COOT 2

(5)



(4)

Dunn Ranch 17/9/93
0845
4.4 kms Riv. to old
Newdegate Rd

15.5 kms to Turn off
Dunn Ranchth Scapa
1.1 + 700 m

Post 20cm deep water
9 cm above water level
35 cm high.

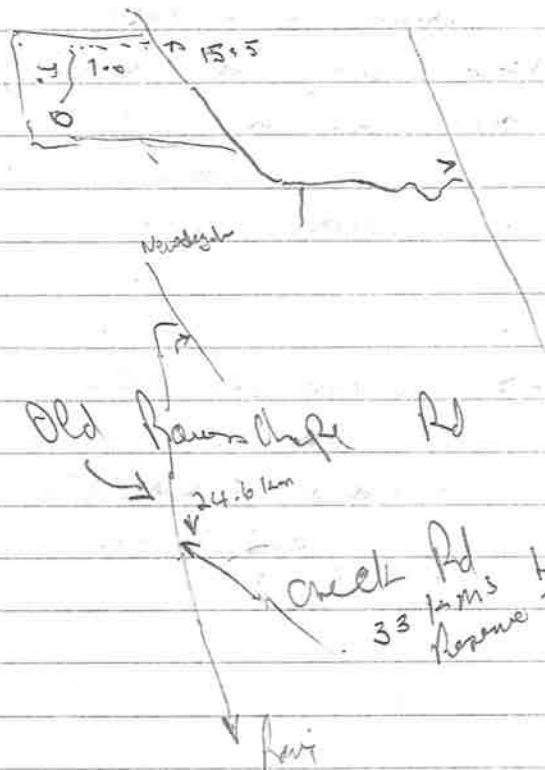
Post 3-5 m from Sig. on R.H.S.
Bennett's lake.

HWC 12

Muss 2

Coot 2

(5)



(6)

Corrigin 17/9/93

1140

33 cm out of water

31 cm deep water

64 cm Total

Yealoring

42 cm exposed

Co. 60 cm deep

Datum 2.5 = Co. 2.11

(7)

121.5 mill.

Beverley 17/9 1350

1.13 m deep

Forrestdale 1535

22.82

Gibb 1550

24.52

Thoms 1.84

(8)

Survival Course

22/9/93.

Lessons on bushcraft survival

MIT method of instruction
introduction of lesson is
important
attention grabber - knife
flexibility is important

Training aids - stay outside
- sense of achievement from doing
involve in hands on

Handouts -

(9)

Sugar & condensation - fire

Keep classes to max 30

Text

Stay alive \$9.00

Water in Australia Arid lands

ANU - \$12.00

M Kavanagh

Willow Plants by Low

(10)

Survival

① Mental Attitude
Mind + Hands

Principles for Sustaining Life

1. Physical & mental well being
2. Protection from exposure
3. Body fluids
4. Food

Rules & Priorities

Water

Shelter

Food

Fire

Nav / Rescue Signals

Medical

AJ PABO

(11)

Survival

S. - Size up Situation

Sit down & assess

Water

Food

Who knows

etc

W - Under hole = waste

R - Remember where you are

V - Vantage Point + Plan

I - Improvise - Parachute cord

V - Value living - will to survive

A - Act like native

L - Basic Skills - learn on

(12)

Water Loss
Dehydration headaches
Keep active mentally.

Fatigue
Sundowners

Maintain mental fitness

(13)

Hardy & SAS.
Bush Ticks

Taste Test.
Giddy giddy Flavourless
Crob eyes

6 Stages.
Milly Sap antiseptic

Warning indicators

Toxic Milky Sap - Thistle & figs
Can be ok so not all are
toxic

Pea shaped Flowers & Pods.
Can be toxic

(14)

Cooked bean - toxic raw
OK to eat cooked.

Palmated leaves toxic

Cooked oil plant
Medicinal from Waxed leaves
so long on milk in water

Red Seeds toxic
in most cases.

opposite leaves toxic
Pouchy seed pods.
Trumpet shaped flowers -
obovate.

(15)

2. Smell test

Peachy almond smell -
prussic acid
Rancid smell.

Decide Fruit or Veg.

Fruit - raw
Veg at amount - cook

Avoid fungus mushrooms

3. Skin irritation

squeeze onto skin
fore or M under arm side
Wait for 30 mins
look for itch
red
blister
burn

(16)

22.9.93

Test portion 2 cents size

(4)

lips mouth & tongue.

1. Corner of mouth - wait 2 mins
2. Tip of tongue - 2 mins
3. mouth move around with tongue. 2 mins
4. Chew & spit out.

burning
bleeding
Soreness

bitter - Alkaloids
other

(17)

(5)

Chew & Swallow - wait
4 hours. - Small thumb
nail size portion.
Consume with food that is
OK to eat.

Consume in small quantities
over the course of a few days.

Leaves
Fruit
Bark
Tubers
Roots.

2

(18)

Native Cherry.
Eriocarpum ?

latifolius
young shrub
much repellent

Acacia cyclops

not pub.
crust. fols. - dense.

fish poison - sapling
takes O₂ out of water
makes mus & no drink

(19)

Lycium - African box thorn
Some box thorns

Coastal Saltbush *Rauvolfia*
bark leaves
eat berries ripe

Purple Nightshade
ripe berries ok.
cook leaves

Solanum *Myrsine* droop berries
aromatic upright

Myrsine sp - ok fruit

(20)

Caryota berries
buds nest. Dabber
green fruit

SH African Spruce
down coast

Cock

Gln wax - tea.
Cock leaves

Kunyang - coffee
nest as
hop corn

(21)

Astrolabeum berries

Solar Still

1/4 Tube

Bury

5/5 w/bottle

Pendis Crystal
water purifier

2 grains / 1/2 l.
Iodine / drops

22

"Bush Medicines"

Tim Low.

→ another

23

1/2 fl.

1/4 6/7 1/4

(24)

28-9-93

0730 to Corin & site on to
Collegian

Lake Clifton

D = 4.28 m.

Muss 6

Lice 1

Figured Swamp

Red Wattle Birds

No eggs breeding at present

Ditch 20. 20 = LBL = 0.10

Red 10cm deep 1m wide

Red near but 10cm

(25)

28-9-93

115 Warrumbidgee Rd. Approach to Swan Lake

Suki 2.2.18.2

Wells 4.1.2

Stat 2.6

Poss 2.2

Wagtail

Magpie

At Swan Lake

At. Vorse gate = 0.46

(24)

28.9.93

0730 to Conin & all on to

Colchester

Lake Cliffe

DL 4.28 m.

Wings 6

Lbs 1

Faint Scent

Red Wattle Birds

No eggs breeding at present

Dish 25. 25 = Lbs = 0.10

Red 10cm deep 1m wide

Red near but 10cm

(25)

28.9.93

1115 Warrnup All Rd. Afford to Swan Lake

Snki 2.2.18.2

Wells 6.1.2

Hd 2.6

Pds 2.2

Wagtail

Mangro

At Swan Lake

At. Vaise gate = 0.46

(26)

Active Nests

No. Sittings	No. standing
43	3.

Broods

#

Activity

Where on mound

not on mound

Feeding - sampling

open lake

Nth end to 2 mounds in water & 2 sides

(27)

Stage 1.

1 1 Pair + 4+ eggs feeding in fl. sandpiper

2 1 Pair + 4+ eggs " " "

3 ~~Single~~ Ad + 4 eggs swimming & feeding in fl. Sa

4 ~~Single~~ Ad + 3+ ^{ad} eggs feeding in fl. Sa

1 Shet + 4 ducklings swimming in fl. Sa.

Gold black bill

5 far bank to sk. 2 Ad + 4+ eggs resting in fl. Sa

6 This side Canal - 2 Ad + 4+ eggs feeding in fl. Sa
near broken post

7 Behind Post #10 1 Ad + 1+ eggs on mound resting

8 4 Ad + 5 eggs feeding in fl. Sa

9 2 Ad + 6 swimming

10 2 Ad + 4 feeding in fl. Sa

11 1 Ad + 4 Resting on Mound 1 Ad nearby Sur

3 Broods Shelduck: 1x 7+ 1x 8+ 1x 5+

(28)

2 mounds in water to Sth end
 via low tide D = 0.51
 Stage 2

Sitting 4 on active mounds
 Standing 5 on active mounds

Life on

Broods.

- #1. 2 Ad + 4 Cy. feeding in fl. Sa
- #2 2 Ad + 5 Cy feeding in fl. Sa
- #3 1 Ad + 1 Cy on mound - nearby 2 Cy on mound about 1-2 m to South.
- #4 2 Ad + 4 Cy feeding in fl. Sa
- #5 1 Ad + 2 Cy on mound (sitting)
- #6 2 Ad + 6 Cy feeding - plucking in fl. Sa
- #7 2 Ad + 5 Swimming & feeding in open fl. Sa
- #8 1 Ad + 5 Cy feeding in fl. Sa
- 3 Shd.
- #9 2 Ad + 5 egg feeding in high ground Sa
- #10 1 Ad + 2 egg feeding in fl. Sa
- #11 2 Ad + 1 egg feeding in fl. Sa

28/9/92

(29)

with + Sue

Wonnarup

Wallace Home

Broods cat'd

- #12 1 Ad + 6 Cy on lake edge at Sth end feeding on grass
- #12 1 Ad + 5 Cy feeding in fl. Sa
- #13 2 Ad + 3 Cy feeding in fl. Sa
- Shd. + 5 ducklings
- #14 1 Ad + 1 egg (black head) on mound resting - not fed.
- #15 2 Ad + 5 egg feeding in fl. Sa
- #16 2 Ad + 4 egg in distance on pasture around pool. Active, unknown
- #17 2 Ad + 6 egg in open water picking & feeding?

Total # of Ad for whole of Area 1 + 2 to
 Lake Bate a Nth to fence
 = 230

(30)

Port George 28/9/93

14.15 Hrs lake on approach to Estuary

Puffin 2:1 feeding in long grass at edge of lake

Puffin 1 resting on edge

A Pel

B Shadblow like

Whistling like

Wren 1

Magpie hole in post

N. Heron hanging over post

B Cuckoo shrike

Moth. 1 over grassland

(31)

Port George 11 = 0:51

Colony "A"

Birds sitting	0	definite nests	16	Rt of # 26
		Possible	+ 5	
standing			0	

Colony "B"

Sitting	8	Rt of # 26
standing	0	

Colony "Extras"

2
0

Second count

Colony A 10 sitting

Wood sandpiper 4 pecking & swallowing
at tufts of dead & wet grass at edge of water.

mostly in grassland. grazed by Se.

Shel.

Puffin

Cuckoo

(32)

Cont'd

SHE 1

YBSB 2

SAC 1

Shov 2

Alet 4

Swain

shel.

(33)

29/10/03

Install Delt. gauge

Min 30cm

Relate to bridge gg

Count 2 snails on Rd

Sediment counts on fence side

Tom Ayers on Forest Rd
Right of Way - along stn side
of his tunnel house fence.

D = 37 cm

Bottom of plate right on lake bed

W	Loch	=	0.145	0910 hr
V	Loch	=	0.44	0915

29.9.93

Saline Pool nearest town to St. Charles

Swam 5 eggs, feeding with sedge

Swam 1 feeding in fl. Se.

Saci 1 feeding in fl. Se.

Lige. 1 O/H

L. Rc. 1 on post

Wttn 1 feeding in fl. Se

Gt G. 1 " " " (Catching)

Wsch. ♂ on top of Sw + pairs

common in Se

2 small ♀ birds in fl. Se + ♂ feeding

Not feeding seriously. Male bobs head

→ moves rapidly thru water & in for

occasionally upending. Moved into

M. catulain on edge of bank with

Sedge underneath.

Cont'd

Pa. B. 1 + 8 young (C. 1) feeding
actively in shallows - walking + pecking
Swimming + dabbling - Duck weed
common.

Au. G. b. 1 feeding (drying)

Pa. B. 1 Pair copulating in shallows
around Se.

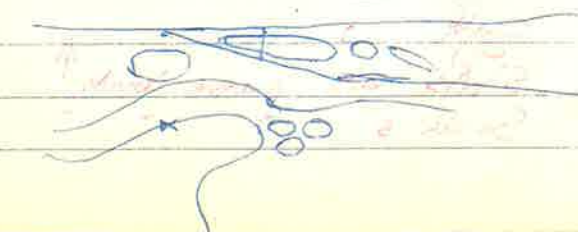
P. Sn. 1 feeding in fl. Se

Gt. E. 1 feeding (hungry) in fl. Se + Se
Wttn O/H.

Sk. - Swimming

Y. B. B. O/H

Road ↑



(36)

Pool to west of house

Shits 20+ 6:3 in grass feeding near pool

Sank 2. resting

Roo 37

Gyfl. 24

Chkl. 2

Shel 2

Shl. 1

Pool deeper Sth of fence.

Roo 28

Shel 2

Wsch 6

Sigl 1

Gyfl 2

Shits 29 Same birds ↑

Sank 3 " " "

(37)

Roo + Gyfl. Shelling in flooded grassland - composed mostly of small yellow fl. succulent & eye grasses. Also feeding - foraging in grassland along edges of pool. 1 Chestnut tree ♂ with 1 ♀ resting in grass of Gyfl. on banks.

Shits Shelling in grass & then when disturbed flew to pool 150m east. Watched for about 10 mins in strong winds then they began to feed by pecking & jumping with wings extended.

Sigl. resting near fence
Shel. feeding a downy wing in pool.

(38)

WShn + GtE. common in
area + appear to use
flooded marshes for feeding +
shelter.

Survival Water in Australia's Arid Lands

By B. Kavanagh

Conn. Delene. Del.

Aids to Survival. Poline Del.

(39)

Warranup "B" Colony

Park on Hayman Rd + Well
to fence Junction.

Count Swans on nests on
Western most colony

= 2. Sitting

0 Standing

Eastern most 41

(40)

Mike Churches

1. Apply herbicide (Roundup) to Kangaroo Yards
2. Remove leaf material from driveway. Dead limbs
3. Dead + remove around outside yard.
4. Tortoise shed
5. Mat for library steps
Rob to sweep
6. Erosion around building
more b. metal
7. Remove shrubs

(41)

(42)

Waxes

Dryto Gowns - Garry
Random numbers

+

Subjective selection

1st Planting 92.

Prune to 20 cm ht
weigh. vol.

Take a stem & measure
characteristics of stem lob
& flower

Selected on basis of Garry's
appreciation

(43)

Sheep in field had
dynamic ~~letter~~ Feb.
caused on growth.
Natural flug time May - Nov
coldest
flug induction has been noted
Next to 50%

(44)

764 Lab. Pink
very strong stems

747 Fxul lila
Dark center Pink

821 Pink as above
strong legs no

(45)

772 White Small.
Lab. - Oct No1

768 MB lyle
Thick stems
lets

781 "

MB

(46)

4/11/93

Sarahyn Bathgate

Diplodena Corker in Dartsal

Points

Asexual & Sexual

↓

splash

wind

high level of inoculation
at Cape Rude in Feb
but may not be a problem
due to lack of rain

New shoots susceptible

(47)

invades healthy stems without
producing a corker

↓
Bush pickles

occurs in phloem
but not 3

fungi may have cleansing role
older plants more affected

Fungicides - Some have
been effective

(48)

Fragmentation



Only found on protease

for

Specimen

Boehm

Dynandra

insufficient Site to look at

(49)

(50)

109

Viale
Chambers

MZ 5.6 4500

Fibre optic

light source 2000

MZ 8

(51)

6/11/93

Crackers

7/11/93

0930 logue 0.26

Burst 40

R.W.M. 4

P.30

Gyld

shel

SWK 1

(52)

9/11/93

0830 To Dobaderry

Phone 80° + 60°

1030 Dobaderry 6.25 0.30

1230 Buxley 8.50 0.99

Depth gg needs membrane but
a Wawa gg is in place at 9.15

(53)

10/11/93

0730 to Mullet. Lk.

on track into lake pool on
east side

PABD 30

Sun 25

Gyfl. 10

Shel 30

photo of track in showing mel.
+ ti tree in fair cond.photo showing vldt grass intrusion
" close upphoto - tilled grass amongst mel.
" close up.

Track wash out.

Track degroding samphire around
edge of Mullet lake

(54)

photo along east side looking
north from depth gauge.

photo along east looking sth.

Swan 30.

Skel 50

PaBO 50

waders 30 R

Reas 10

YBSB-1

Net DC 1.94

Net 34
61

(55)

Warden 10/11/95

71 cm exposed on fly

1.94 at gg.

photo East side & south side
& behind each from
gg side

Whisk 3.

Gore 1.75 8.80

26410 0.95 7.76

Skel 10.

Sel 91. 61 cm exposed Nov 92 2.29

Sel 1.50

5

(56)

Yaalup 10/11/95

Peg 0.23 exposed

egg on track 2.74

Skel. 5

Peg 2

muss 1

Lid 1

Peg 1 days 3 dwelling

cool nest 7 eggs

Peg 1

(57)

Kudrap

10/11/95

water level very high

ca. 1.5 m

Hugs 400

egg missing plate

Skel.

Skel.

Skel.

w/Chn

Coyneup 2.0?

Casuarina 1.21

100s of ducks feeding (dabbling + filling)
over lake surface. ~~with~~ dense growth
of reeds at edge of lake.

Peg 400 Skel. 300

Peg 400

Skel. 300

(58)

Capuarua cañ'd. 10/11/93
Water level receded off road.
Numerous mosquitos
Veget unchanged - Dead

(59)

11/11/93
Quay Water to 32
100 x 50 m.

Dumblesig 2.74 m.
Taasbi
Walbying
Troolubin
Dubbung = 69.

Jan Sabut 45.09.

(60)

Instal
Dabflow

(61)

Stare 22/1/93

"O" Ring needs to seal at top
2 Capacitive plates

Battery = 6 mth 1 hdy.

Recary 12 1/2 volts

Down 2 5 volts.

Below 5 Steps working

\$10.50 Battery

Multimeter

Dick Smith \$20.00

Type

Instal

Dabflow

Menu

3

S^{no}

* Period *

*

* Static *

*

62



Plug in
↻

Calibrate
Single channel.

① Capa with Comm
enter defaults

Min # of 19 bytes
check for valid data

63

12 problems when setting
up wait minute after
disconnecting battery.

(64)

Wormand 23/1/93

Approach along East Rd

Soil 5 feeding in shallows along
margins & sample here

Sue + Nick

Swan Lake

Swan Ad 165 total Count 1

185 total Count 2

~~175~~

0.44 m Depth Swan Lake

0.45 m Depth Tunnel hole

0.20 m Depth Worm. Gals.

Record # of Boards flowing over

" " " Not " "

0.30

Vasse

eastern end gale open 1 board out

+ flowing

1330

all others not flowing but backing

0.36 Vasse - Drive in

(65)

Recorder Notes

Buy

Silica Gel crystals

Vaseline or Silicon grease

Data Recorder 3x # 392

Serial # 39522 (128K)

SD Small Downy
LFD Large with feathers & down
MFD medium
East end Wonnemah at level

(66)

21/11/93 0700 50715

Cygs

Broods. Swam Active Nest

4 SD

1

2 SD

1

5 LFD

1

29

4 LFD

1

14

4 LFD

1

4

2 MFD

1

1 MFD

1

4 LFD

1

5 SD

1

2 MFD

1

4 MFD

1

3 MFD

1

5 MFD

1

7 LFD

1

6 LFD

1

12

6 MFD

1

67

Cont'd

→

(67)

Swam 20

(40) Cyglt 1000

(40) PABO 300

CygtE 2

Snk1 100

Shov

Sigl 10

LIGB 1

(40) SHel 200

WtAn 10

Sank 1

Chke

Mand

68 + 2 VLP

Cont'd

eggs	Birds	Ad
1 LD	1	
2 LD	1	
1 MFB	1	
3 LD	1	
6 LD	1	
3 LFD	1	
2 LFD	1	
5 LFD	1	
2 MD	1	
2 MD	2	
4 LD	1	
6 SD	1	
3 LD	1	
2 MD	1	
1 LD	1	
3 LD	2	

54 + 68 = 122 (121 (2nd cnt)) 0845 278 Ad.
+ 4 12 RD 32 = 328 B1

69

Cont'd Monmouth Swam. Cnt 24th 193

eggs	Birds	Ad
4 Sm D	1	
3 MD		
2 LD		
1 LD		

moved into next section from previous

7 LFD	1	Start
4 LFD	1	
3 LFD	1	
6 LFD	1	
2 MD	1	
1 LFD	1	
3 SFD	1	
1 MFD	1	
3 LD	1	

First Cnt 122 eggs

Add 1 x 4

1 x 2

2nd Cnt

= 128
131 + 2 at start? = 133
= 5 missing

(70)

Cont'd

2nd Stage Monitors

Cyanide Brds

3 LD	1
3 LFD	1
4 MFD	1
4 MD	1
18 MFD	1 ? /

2
3
18

4 SD	1
4 LD	1
4 SD	1
2 SFD	1
4 LD	1
5 MFD	1
7 MFD	
6 MFD	
4 MFD	

75

(71)

5 SD 1

~~3~~ LD 1

1 SD 1

4 MD 1

4 MFD 1

4 MFD 1

1 LFD

5 LFD

5 SD

5 MFD

8 MFD

lost Radio

1 MFD

4 SD

8 MFD

2 "

3 1

60

72

3 SFD

6 MFD

1 SFD

4 MD

2 LD

3 MFD

2 "

3 "

6 "

1 LD

3 MFD

1 LFD

5 MFD

7 "

4 LFD

52

73

4 MFD

5

3

5 SFD

2 "

3 MFD

2 MFD

4 LD

4 LFD

4 MFD

2 MFD

5 MFD

4 SFD

3 SFD

3 SFD

4 SFD

4 SFD

61

On Side of Color

(74)

5 MD
 3 MD
 2 MFD
 3 VSD
 2 SFD
 3 SD
 3 SD
 3 SD
 6 SD
 4 SD
 2 SD
 6 SFD
 2 SD
 5 SFD
 4 LFD x 2
 5 MD

58

(75)

5 SD in creek

~~4~~ 5 SD

3 SD

6 SD

2 MFD

21

VSD	SD	MD	LD	SFD	MFD	LFD
21						
58						
64						
52						
60						
75						
317						
128						
455						
518 Jim						

(76)

24/11/93

1600 to camp office Charles Boubert
Nick Wallace.

1815 0044 Swan Lake

186 ad. Swan Swan Lake

1850 to Wonn 99

Receipt for Maths \$3.80

Vase Survey.

0810 2 + 2 Yng in Creek

Start

0800

0830

(77)

25/11/93

0630 Load up.

0715 Drop Jim off

0745 at Layman Rd

No of eggs

SD MD LD SBO MF LP

Cuck.

6

1

7+

4

2

Pato 2 Yng

" 2 Yng

" 4 Yng

" 9 Yng

" 8 Yng

He has counts

Jim waved. at 0910

(78)

25/11/93

Cygnet Survey

6 MD in creek near start

1 SFD in creek

walked to entrance of creek

7 LD

4 LD

1 LD

2 LD

6 SD

5 SD 32 20 52

In water some got low. Ask Jim whether

Jim walked on

Resume after Jim walked on

(487)

(79)

Resume 0922

5 LFD

9 giant MFD 6 + 3.

2 LD. crawling fast in water

2 + SD on this side near rocks

5 SD

5 SD } in bunch swimming fast

8 LD 4 + 4

1 LFD

3 MFD

5 MFD

6 MD

(51)

2 SD my side opposite will

5 LFD Jaws At Vasse Colony

5⁺ MD

5 + SD

(68)

(80)

Walked on to West end of Col.

6 MD

4 LD

10 SD

5 SD

(25)

West to Vase Col.

1 MD

4 MD

Brood teal shot (add)

8 MFD

7 MD

2 LFD

7 SD

(29)

Loaded around Sabir? R.

(81)

5 LFD

Crossing post

8 LD

(10)

Stopped country to make
up line

(60)

Resumed after Jim crossed estuary

3 LFD

3 SD

5 SD

6 MFD

1 LD

4 MFD

6 LD

5 LD

3 LFD

6 LFD

(41)

5 SD

13 LD

4 LFD

4 LD

off tank
sewerage

3 SD

4 LFD

6 SD

6 SD

4 SD 6 SD

6 LFD

(87)

(82)

West end Jones

2 LFD

1 MD

4 MD

1 LFD

4 SD

4 MD

3 MD

4 MD

2 LFD

5 MD

6 SD

4 MFD

5 MD

6 SD

4 SD

3 MD

(83)

(83)

5 SD

4 LD

3 LFD

13 LFD

3 LFD

4 + 50

3 LD

4 LFD

6 MFD

3 LFD

2 MFD

3 LFD

1200 Lunch at Ford Rd

(83)

211 gl w/dend
of Voss

(84)

093	236	925
Norm	Kearby	Burbidge

(85)

14/12/93

0600 W.R.

0730 Cellar.

1045 at Wernamp Sea Lake,
Wallaces.

was not ~~supper~~ dinner had pigs

097 535467

1830 Vasse Hotel

Phone 40^e

Phon 1.40 Home

(86)

15/12/93 Vane. 0620

312 - 400

- 425

450

460

494

Measured heights of all
nests at Swan Lake.
1245 to 0500 for birds.

(87)

Bussellton CALM office

097 521677

Hilux

Keys in Fire Extens.

(88)

Vase 22/12/98

Age	Birds	Adult
14 FD	6	2

(89)

Vase 22/12/98

1315 To mouth of River
on Vase, 0 Nth

Woods 3 in margins

~~Boat~~? white tail (folded)

Woods white eye stripe

Downy wings bill broad at tip

Bank 1.1.1.1.1.3.21

Woods 1.3.2.14

4 nests on South Side

off back point. Nth of large

brick house on Vase Hwy

+ 1 used no shed

+ 1 not used fence

(90)

23/12/13 0730 At Hotel.

Susan Lake

Nest # 168 lost # 12.

Nest for eggs frags. on top of
New island

Scrubby growth through nest to 20cm
in height ground edge in its
centre but not in egg space.
Scrubby used this year

SD Womarep Welles 0.18

(91)

Womarep Colony

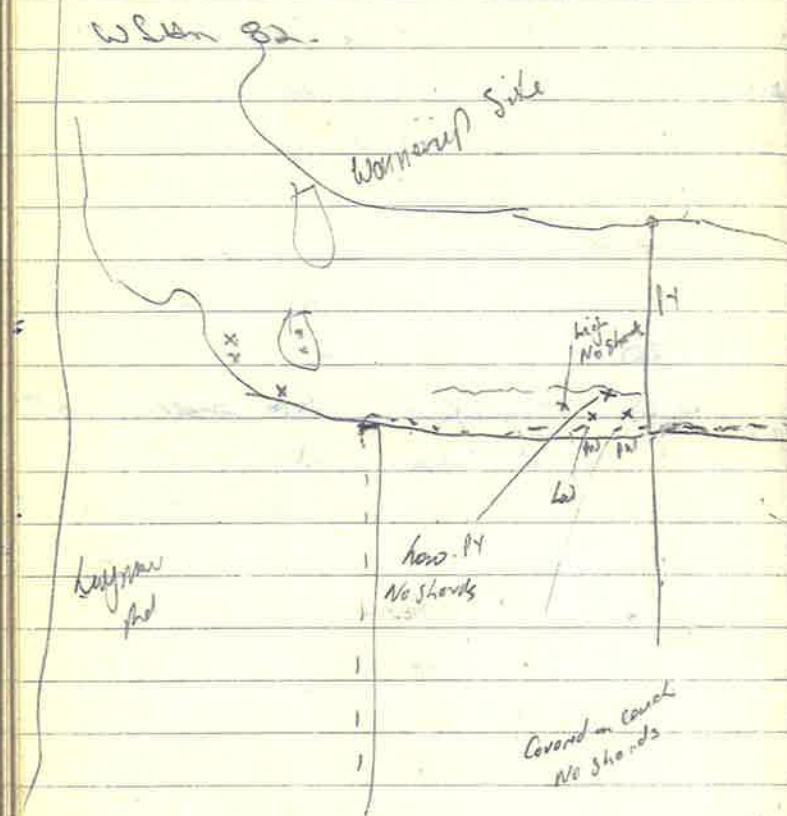
117	117 MP + LP	14
4 Dams	121	7
3 Ad	124	3

Womarep Susan Cant

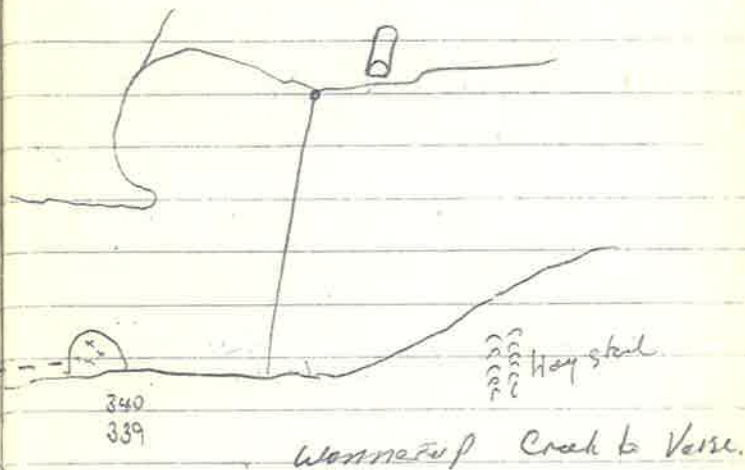
1050

1051 small ex nest used as nest
No egg shells

92



93



5 m Downy
3 L Downy
6 L Downy
4 m Downy

(94)

mesh (Bird)
Sausages. Φ
Recycle Junk
Sprinkles

Trails Paint
Wheel. + tyre.
Tare + aggregate.

(95)

Rural + Metro
Ellis

Panizza Proboscis
near Smith

913913 Broken Hair Dress
Graham Emerson

(96)

5/1/94

10.00 to Bm

1250 Lnd

1450 Vase - 0.03

1500 Wansup - 0.155

5/1/94

(97)

0

1000 to Bm

1250 Lnd

1450 ~~Wansup~~ Vase - 0.03

1500 Wansup - 0.155

(98)

Bob Oligard

5762017

Naville 4548211

(99)

Tues Aug 16 94

0950 Honey ~~at~~ island it. Depth = 00.00

Standard Solution 35.39 ₆₀ Read 35.3 ft at

1035 hrs + stable

(100)

Harvey Estuary Profiling

16/8/94

Harvey Estuary

Station	Time	Depth	Sal. ‰	Temp °C
1	1035	0.10	9.7	15.6
		0.20	9.8	15.5
		0.40	13.2	15.4
		0.50	16.9	15.8
Q	1045	0.10	11.2	14.9
		0.20	11.7	14.9
		0.40	14.9	14.6
		0.60	16.2	14.2
		0.80	16.7	14.5
		1.00	21.4	16.1
		1.20	23.9	16.3
		1.40	26.2	16.5
		1.60	27.2	16.6
		1.80		

16/8/94

(101)

Station	Time	Depth	Sal. ‰	Temp °C
2	1109	0.20	9.5	15.4
		0.40	9.5	15.4
		0.60	9.5	15.4
		0.8	13.5	14.8
3	1120	0.95	19.3	14.9
		0.20	9.6	15.3
		0.40	9.7	15.4
		0.60	10.5	14.9
		0.80	16.4	14.5
4	1129	1.00	19.5	14.6
		1.20	19.5	14.6
		0.2	9.7	15.8
		0.4	9.7	15.8
		0.6	12.0	14.4
		0.8	13.4	14.4
		1.00	18.5	14.4
		1.20	19.5	14.4

102

16/8/94

Station	Time	Depth	Sal.	Temp
5	1132	0.20	10.4	16.2
	1137	0.40	13.5	15.4
		0.60	17.5	14.6
		0.80	18.2	14.7
		1.0	18.4	14.7
	1141	1.2	18.4	14.7
6	1146	0.2	9.4	16.4
		0.4	13.2	15.6
	1148	0.6	17.7	15.4
7	1152	0.20	11.5	16.6
		0.40	11.5	16.6
		0.60		
	1156	0.5	11.5	16.6

Cyl 6
 Robo 4
 Wand 2
~~Wand~~

16/8/94

103

Harvey River 16/8/94

Station	Time	Depth	Sal.	Temp
0 km	1246	0.1	0.6	14.4
		0.2	0.6	14.4
		0.4	0.6	14.4
0.5 km	1253	0.2	0.6	14.4
		0.4		
		0.6		
		0.8		
	1254	0.9	0.6	14.4
1.0 km	1257	0.2		
		0.4		
		0.6		
		0.8		
	1258	1.00		
1.5 km	1301	0.2		
		0.4		
		0.6		
		0.8		
	1302	1.00		

(104)

16/8/04

Station	Time	Depth	Sed.	Temp
2.0 km	1306	0.2	0.6	14.6
		0.4	↓	↓
		0.6	↓	↓
		0.8	↓	↓
		1.0	↓	↓
	1308	1.2	↓	↓
2.5 km	1311	0.2	0.6	14.4
		↓	↓	↓
		↓	↓	↓
	1313	1.8	↓	↓
3.0 km	1316	0.2	0.6	14.5
		0.4	0.5	↓
		0.6	0.5	↓
		0.8	0.5	↓
		1.0	0.5	↓
	1318	1.1	0.5	↓

16/8/04

(105)

Station	Time	Depth	Sed.	Temp
3.5 km	1321	0.2	0.5	14.6
		0.4	↓	↓
		↓	↓	↓
	1322	2.1	↓	↓
4.0 km	1326	0.2	0.5	14.8
		↓	↓	↓
		↓	↓	↓
	1327	1.8	↓	↓

Deth on vertical force post RHS
 Square tube, 770 mm exposed.

Starfished Top is 2400 mm above water
 level of river (Surface)

BRIDGE	1350	0.2	0.5	14.5
		0.4	0.5	14.5
		0.6	0.5	14.5

(106)

Hornby Estuary 16/8/64

Estuary 1418 0.2 8.6 17.8

Side near gauge.

NT Conclusion of SurveyOded California ~~to~~ Homan in Seawater- 35.3 Mch ~~to~~ 35.22

Watch in top water 1st rock.

Pima gauge?

Depth at 1430 = -0.10

0950 - -0.00

(107)

16/8/94

Boundary Isd 1540 hrs
 ca 150 Pels in scatter group on
 large cleared area of sand.
 Some with pronounced breeding color -
 most flew off when approached.

A group of 50-100 shells on a
 colony. Most with color.
 About 20 large sandy ditches
 on SE corner of group.

Did not approach too close
 + could not get good view.
 Left the way we came in
 from west up the gully,
 with minimal disturbance.

16/8/94

1615

Creevy Lagoon

Main Pool

Bust 29. 50-6 feeding in
 pool + around margin.

BT Godwit 8 feeding in pool.

Sco 126. 21 feeding

Bust 15. feeding + roosting

Little Green Pind 2 Calling

Sigl 1. roosting

CyTE 1 roosting

Northern Pools

Bust 11 feeding in Soughie + pool
 Gosh 3 feeding at edge of pool
 Shel 1 hoosky

(110)

Detailed Wetland & Natural
Resource map folios

2300 wetlands have been
evaluated out of about 5000

EPA Policies Strategies for
Wetland Cons in WA

Non Stateonly

EPA Statewide Policy (like)

EPA Folio Policy

(111)

Wetland Protection (Ramsar)
Foradde

Therun

Boston

St. Clement

Creng

Nature Significance

Lesia

Full Project

Beckler

Regional Significance

Red Rock Pt - Bunkay Study

Told much in Wetland & Significance

Booagoon

Guvelup

Wagholze

(112)

Dodd wellbore Company
1992 Column
missing?

Bussellton

(113)

Offshore

(114)

Columbia River Est. Wetland

18/8/94

116 species occur on wetland on ssp
waterbird needs

↓ Slides Rich
lakes

Wetland

Phonated winter wet areas support
most br sp

suggest wet have more bds

Species richness & br success
increase with amount & complexity
of emergent veg.

Species richness & br success
decrease with salinity

More primary prod. more w/birds

(115)

Confers

link between nutrients & birds

when limits are exceeded

Key Factors for W/birds

①

Habitat shells br breeding mostly
~~food~~ No

②

Food different food types

Diving

Pilchard

Dabbling

Shorebirds

Grazing

③ Movement

Wetland forest. proximity
to estuary. High loss of
ducks across road.

④ Security

Freedom from predation
disturbance & disease
Crows & raptors

Ways to enhance
well-being

Plan for a system
manage each on its merit
Maintain diversity
Permit

Second

biggest more complex is better
fencing & emergent veg.
Second & offhand acres

avoid night charges into/

avoid predation & disturbance by
ducks

by birds

control foxes & cats

discourage bird feeding

information & education

Lesser water boat

Painted snipe

Black Bittern

(118)

Owen Nichols

Opportunities for Wetland Creation

mining Drainage Stormwater

Farm Dams Biological Filters

Developing a Plan

- 1 Plan early.
- 2 Define opportunities + limitations
hydrology pollutants economics soils
human impacts
- 3 Define objectives
- 4 Determine construction + maintenance
- 5 Determine ongoing management requirements
- 6 Obtain necessary technical input
- 7 Devise objectives + develop
a clear plan → + commitment
- 8 Obtain input views from
stakeholders

(119)

Agenda

APCs

Better Living

New Bus.

Walk.

Review meeting - objectives

Objectives

What's needed

Provide habitat for target species

Recreate a particular wetland community

Provide for multiple purposes and uses

Cons recreation education Research

Specific functions - biological
filters

ongoing Mgmt
 water quality Mgmt
 Hydrology
 Follow up Mgmt
 Weed Control
 Fire
 People
 Fresh animals

Monitoring & assessment

Planning islands for
 Suez breeding

ANC Rec Mineral Sands
 Tech reports

Willards Cove Society
 Lake & Reservoir

Price guide to landholders
 for farm dams.

Establishing Aquatic plants

122

18/8/94
EPA aspect

EIA

informal assessment reviewed
with public advice

Formal assessment

C&A

DER

E&M&F

Environmental Risk Review

Section 35

Policy area
beneficial uses
and quality objectives

123

env. Protection (cons.) measures
and approval requirements - ponding

9 mg P. / ha.

10. Swamp Larkspur controls quick
Ranunculus.

Green Coastal Main Lake Policy

W Natural Reserve Zone maps
& overlays

18/8/94

Social Attitudes to Wetlands
Red GublettFriends of Forrestdale Lake
write a book on wetlandsTo change politicians attitudes
as well as change
community attitudesAfrican Queen
ForresterTimber use of maps
spacelessness of historyExplorers did not notice swamps on
early maps

video on Forrestdale Lake

Andrew Del Mar

Alan Wells & IC

Alan has left

Dampford & Polypine

Daren Walsh Env Officer

E. Mearns

S

Chris Berry Mung Gents
Commissioner

Mung issues in local govt

(126)

18/8/94

Dr Chris Berry
Local Government.

Intergovernment ~~was~~ against
partnership between State & local govt

Biological diversity in Nature Conservation
Part Flora & Fauna - State

primary role

Commonwealth Role.

Responsibilities of the Schedule states
to address environment issues.

Wingmont & impact on Wetland

1. local govt - road making,
storm water

2. local govt planning & develop
control.

(127)

18/8/94

Local Govt planning

LGs involved in more than 50% of
decisions.

80% of development control decisions
are made without any environmental
information.

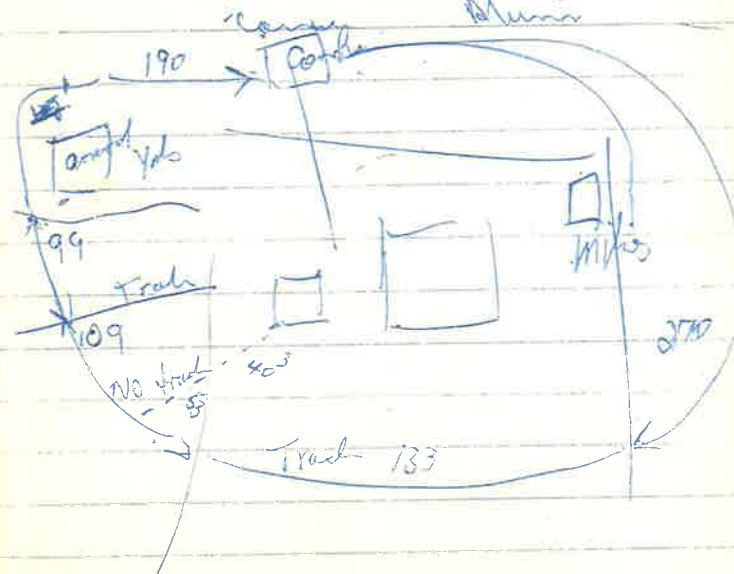
LGs is leaving a lot of environ.
planning to local Gs.

128

129

14' Dringy
12' Dringy Chade
10' Rusty Sash
10' Rusty Table
12' Rusty Nails

Came	Fiberflex
Came	Alum



Washed Pile

(130)

For Jim & Ben
Vehicle

Trade Land on Pajero Tracker

Roo Bar Red Rack Flybase bedder

Transfer Winch Kangaroo Jack Fridglets
Shovel. Light in back reserve fuel

500km fuel Range.

2 Batteries Coleman

Air con.

Transfer HF & VHF

Whip Hdd?

Outboard outboard on top bar.

Trip meter transfer

False floor for stove pickets

Transfer evening light

Do ASAP

New vehicle if possible

#1

(131)

#(2) For Jim one unit
Salinity Temp + Dissolved O₂ pH?
D & meter & pH all in one.

Probe with min 5m probably 10m.

Talk to Mike Smith

Waterways Commission

Ned Mottissey

Jerry Davis

\$3000?

- Dave Deally of
Law Rocks or
Tom Rose from
Mandurah.

#(4)

1000 Binoculars Trade pens on new box
or new good Japanese
max \$500

#(6)

500 Trade old fridge on new slightly higher

#(3)

200-400? Boats trade dinghy for new 12' Pont

#(5) Outboard 8HP for new 8HP

Determine prices & the budget

Marron Traps. Val Regs Keep simple

132

30/8/94

0630 To w/c Dis alarm + loaded

0730 Pick up Jim & on to Harey Est

0955 Survey Delta = 0.05 m on gauge

1100 Left Cherry for hill

1805 Collected

1850 W/c. Check alarm

Gordon Frenchie lights on

1900 At home

133

1/9/94

c

(134)

Phone.
Wax Bear Nest Beers
Bark - new H.C.

~~Coring Legon~~

1644 hrs

30/8/54

(135)

Siren - 27

LiGB - several heard - anywhere

~~Coring Legon~~

BG Skitt - 158

Arrest - 1

Pelican - 2

Yb Spombill - 1+4 = 5

GyTL - 260

Shel - 53

PeBD - 260

✓ Sipl - 2 tens

Banded Skitt - 15

Whistling Kite - 1 along N shore of
Legon.

White Swallows / Martins

myr swallows - 2

1706 hrs

(136)

(137)

1. Great track in pool to
NW of Camp Logan (approx)
from dipper by c. 10m of
single line

Dot

WTW

Perth Scientific

(138)

Albany Daisies

Achnodorum Cunninghamii

Victoria 2015

5th of Pent

well drained wetter sand

Greenhouse crop

Vert. brownii Pink form

not *Vert. eximifolia*

great potential as a crop

Digandra polycephala

Total of 100 plants

100 of 1

or a mixture

(139)

Lot 1. 6 *Borenia argentea*

Lot 2 6 "

Lot 3 9. B. Dg. *Banksia*

4 1 *Adenanthos*

5 1 "

68980 V.K. Simmons

(140)

APACE

8/9/94

Snag

^{Prunus}
Calyptus June →

May to Dec

Turned for height

Smoking to break dormancy
of seeds

Macropidia

(141)

Soils

Harder material of last years growth
will a small show of this years growth

Hygiene

①

Subsequent

Procedure

Chlorox 25% #2.5
disinfectant

Bench surfaces

Seateurs

Pots.

Cuttings

① 10 cm trim off bottom $\frac{3}{4}$ leaves
N

② Systemic fungicide Pruvor
2 ml / 2 litres

Soak for 2 minutes

③ Dip in IBA 16000 / 16 ml
Rootex

142

8/9/94

- ④ Place in prop. medium
Peat
Vermiculite
River Sand
Perlite

- ⑤ Turn down overhead cutting
⑥ Keep straight for airflow

27°C is optimum temp
for root growth

- ⑦ Transfer to growing media with Nutrient
when roots set 4



3.5 m high

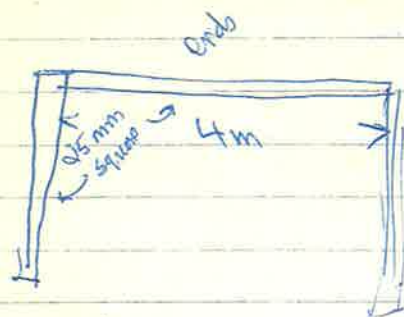
143

Solar Powered Sensor
Meters come on w/
Senses light + humidity

Macrocode for slow release N.

Tram

144



4m square

ultramedules 18mm square

145

Pump smoke in pot (how
seeds in a damp (moist) seed tray
use weld mesh

12 cum of sterilised soil mix \$900
2000 pots/cum

16 g/kg

3 g/l

Richgro
Diggers Club
Seed Sowers

105 Lohrke Pde

Dromana 3936

Calibrated Hydrometer 35.3 Read 35.3 exactly
 9/9/94 Heron Pt Neg.
 D = 0.10 12.5

(146)

Station	Time	Depth	Sal	Temp
1	1106	0.1	16.5	18.5
		0.2	16.5	18.5
		0.4	16.7	18.5
2	1109	0.1	21.8	18.2
		0.2	"	"
		0.4	"	"
		0.6	"	"
		0.8		
		1.0		
		1.2		
		1.4	22.0	18.3
		1.6	22.3	18.4
		1.8	22.4	18.4
2	1122	0.1	19.1	18.6
		0.2	19.2	18.7
		0.4	19.4	18.6
		0.6	21.2	18.5
		0.8	21.4	18.5

Went 10 knots from Nth East

and then

(147)

Station	Time	Depth	Sal	Temp
3	1131	0.1	17.6	18.7
		0.2	17.7	18.7
		0.4	17.9	18.7
		0.6	18.0	18.7
		0.8	20.7	18.7
		1.0	21.0	18.7
		1.2	21.0	18.7
4	1140	0.1	16.2	19.4
		0.2	16.2	
		0.4		
		0.6		
		0.8		
		1.0	18.1	19.6
		1.1	18.5	19.6
5	1147	0.1	17.5	19.8
		0.2		
		0.4		
		0.6	17.5	19.8

148

Station	Time	Depth	Sal	Temp
03	1238	0.1	18.4	19.2
		0.2		
		0.4	18.5	
		0.6	18.5	
		0.8	18.9	19.0
		1.0	20.6	
		1.2	20.8	
		1.4	20.9	19.0
04	1236	0.1	16.6	19.5
		0.2	16.6	
		0.4	16.7	
		0.6		
		0.8	16.9	19.4
		1.0	17.8	19.6
05	1246	1.2	19.3	19.8
		1.0	16.3	20.3
		0.2	16.4	20.3
		0.4	16.4	20.3
		0.6	16.4	20.3
		0.8	16.6	20.2

149

Station	Time	Depth	Sal	Temp
06	1253	0.1	17.9	20.8
		0.2		
		0.4		
		0.6	17.9	20.8
07	1300	0.1	17.2	21.1
		0.2	17.3	
		0.4	17.3	21.1

(150)

Harvey River

Station	Time	Depth	Sal.	Temp
0 km	1307	0.1	0.6	17.4
		0.2		
		0.4	0.6	17.4
	1309	0.6	0.6	17.4
0.5 km	1311	0.1	0.5	17.4
		0.2	0.5	17.2
		0.4	0.5	17.1
		0.6	0.5	17.0
		0.9	0.5	17.0
1.0	1313	0.1	0.5	16.6
		0.2	↓	↓
		0.4	↓	↓
	1319	0.6	↓	↓
1.5 km	1322	0.1	0.5	16.3
		0.2		16.3
		0.4		16.2
		0.6		↓
		0.8		↓
	1324	0.9	0.5	16.2

(151)

Station	Time	Depth	Sal.	Temp
2.0 km				
Hole 1	1326	0.1	0.5	16.3
		↓		↓
		1.8	0.5	16.3
2.0 km	1330	0.1	0.5	16.3
		0.2	↓	↓
		0.4	↓	↓
		0.6	↓	↓
		0.8	↓	↓
	1332	1.0	↓	↓
		1.2		
Hole 2	1336	0.1	0.5	16.3
		↓		
		2.2	0.5	16.2
		2.8	0.5	16.2
2.5 km	1339	0.1	0.5	16.4
		0.2	↓	↓
		0.4	↓	↓
		0.6	↓	↓
Perme Sect				
3.0 km	1342	0.1	0.5	16.4
		0.2	↓	↓
		0.4	↓	↓
		0.6	↓	↓
	1345	0.8	0.5	16.6
		0.1		

(152)

Station	Time	Depth	Sal	Temp
3.5	1348	0.1 ↓ 1.6	0.5 ↓	16.3 ↓
4.0 km	1354	0.1 ↓ 1.4	0.5 ↓	17.4 ↓
Depth at Square Post 972 mm exposed				
5.0	1420	0.1 ↓ 3.2	0.5 ↓	18.2 ↓
No variations End of Survey. Returned to Fort				

(153)

Station	Time	Depth	Sal	Temp
Estuary fish trap side	1450	0.1 0.2 14.8 0.4	14.5 14.6	23.0 22
			15.0	

Rechecked in 35.3 Seawater
meter Read 35.239₁₀₀ at
135.3 hrs

1615 Boundary Fed.

70 lbs on edge

50-100 lbs at colony

Many sitting, eggs visible singly
probably added.

Crocks of Jaws on high ground

Wrestling + sitting. One adult feeding
a chick about 1 week old. 25 young with
well developed 2° + 10 at about 2-3 stage.
left item undisturbed

(154)

44

46

264

176

2024

36

14

144

36

504

Property Power with Rd

Chandela 0-83

Bambur door locked

crabber 1-18 7-60

" 2nd xing (Narrowing ch.) 7-60

8580

69

320

26

1980

660

8580

Tues 0630 - 1830 1

Wed 0630 - 1900 1

Thurs 0630 - 2000 *5

93

2-5

180

47

233

Monthly

Weekly

Daily

~~10~~

water

10 hrs/week

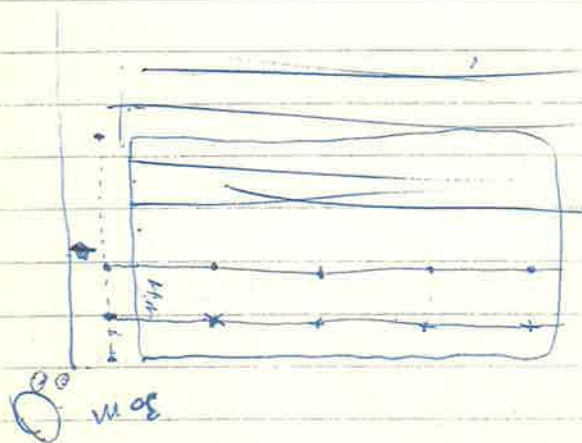
210

= 100 5000

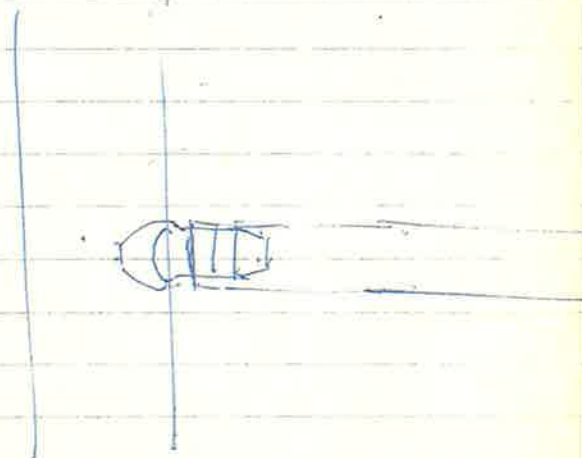
h/rower + trailer + trailer spray
back back

(155)

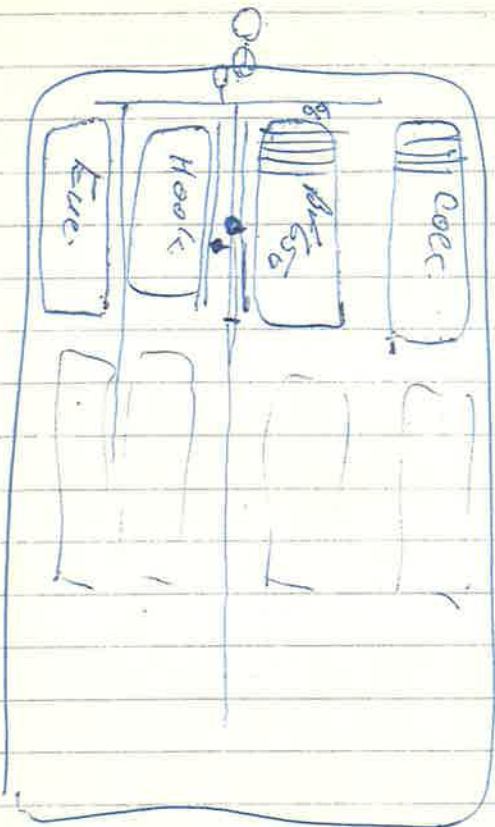
156



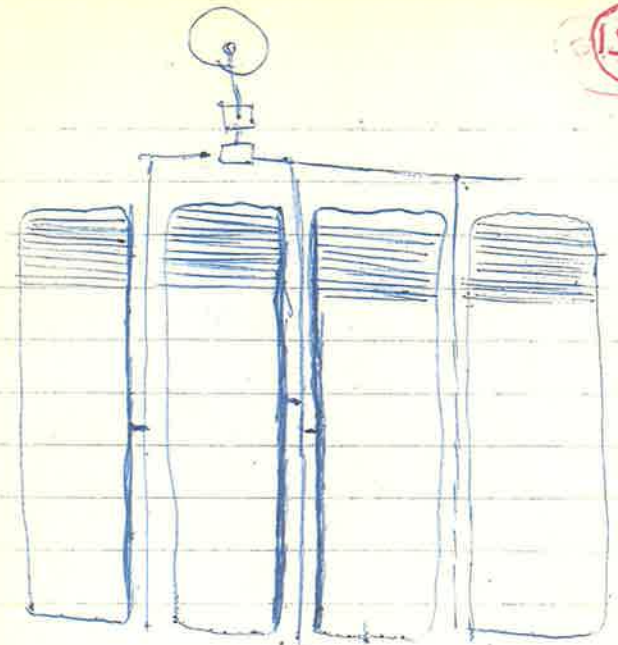
157



158



159



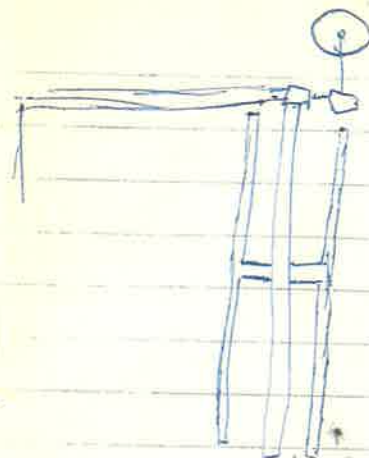
(160)



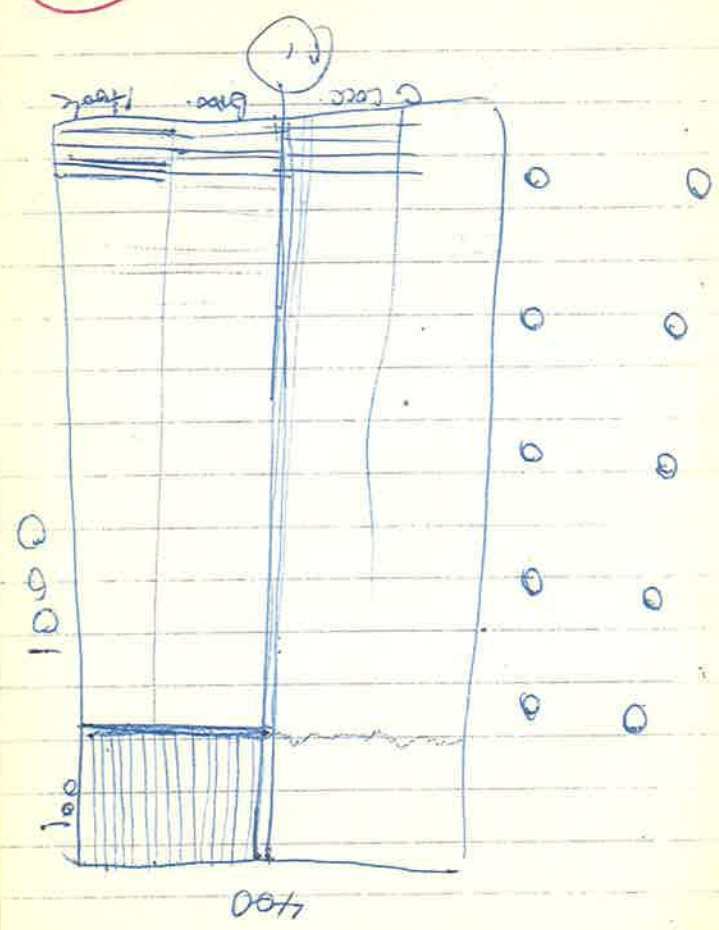
$$\begin{array}{r} 250 \\ 60 \\ \hline 190 \\ 2 \end{array}$$

$$\begin{array}{r} 80 \\ 80 \\ \hline 160 \\ 80 \\ \hline 240 \end{array}$$

(161)



162



163



$$Vol = \pi R^2 \times H$$

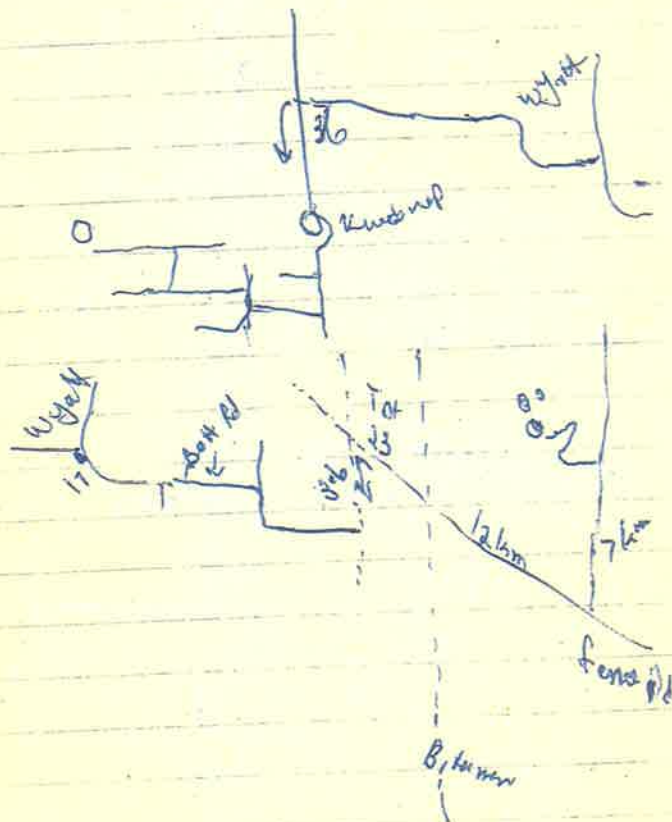
$$\frac{25}{25}$$

$$25 \times 25 \times \frac{22}{7} = 120$$

$$H + 10 \cdot 10$$

$$2.4 \times 4.8 \times = 45000$$

164



165

300
240

1800
1200
400

240
400
640

240

SHANGHAI, CHINA

No. 6510



Adrian Wayne.

572 4245

Supreme

249 2994

0418 924 075

409 7227

(991)