

Jim Lane's Field Notebooks Index Contd.

(Revised Index of 11/5/2014)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
JL_(1970-84)_17A	1980-81	(01-12-80 / 15-11-81)
JL_(1970-84)_18	1982-83	(13-03-82 / 18-03-83)
JL_(1970-84)_19	1984	(15-03-84 / 16-03-84)
JL_(1970-84)_20	1984	(20-09-84 / 10-10-84)
JL_(1992 on)_1	1	(03-11-92 / 03-08-93)
JL_(1992 on)_2	2	(04-08-93 / 18-09-93)
JL_(1992 on)_3	3	(18-09-93 / 26-10-93)
JL_(1992 on)_4	4	(27-10-93 / Dec-93)
JL_(1992 on)_5	5	(14-12-93 / 22-12-93)
JL_(1992 on)_6	6	(23-12-93 / 06-01-94)
JL_(1992 on)_7	7	(18-01-94 / 18-03-94)
JL_(1992 on)_8	8	(21-05-94 / 08-07-94)
JL_(1992 on)_9	9	08 03 (03-07-94 / 02-09-94)
JL_(1992 on)_10	10	(02-09-94 / 17-11-94)
JL_(1992 on)_11	11	(22-11-94 / 9-03-95)
JL_(1992 on)_12	12	Jan 95 + (15-03-95 / 01-04-95)
JL_(1992 on)_13	13	(02-04-95 / 07-04-95)
JL_(1992 on)_14	14	(07-04-95 / 29-04-95)

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JL_(1969-70)_1	'1969-70'	(Nov 70 / Jan 70)
JL_(1970-84)_1	1970-71	(6-12-70 / 17-2-71)
JL_(1970-84)_2	1971	(08-03-71 / 21/01/72)
JL_(1970-84)_3	1972/73	(24-01-72 / 15-02-73)
JL_(1970-84)_4	1973	(05-03-73 / 15-11-73)
JL_(1970-84)_5	1973-74	(12-04-73 / 11-06-74)
JL_(1970-84)_6	1973-74	(03-12-73 / 28-03-74)
JL_(1970-84)_7	1974-76	(03-05-74 / 24-10-75)
JL_(1970-84)_8	1974	(26-05-74 / 18-11-74)
JL_(1970-84)_9	1974-76	(28-08-74 / 02-10-76)
JL_(1970-84)_10	1974-76	(21-12-74 / 25-01-75)
JL_(1970-84)_11	1976	(25-10-76 / 27-11-76)
JL_(1970-84)_12	1977-78	(16-10-77 / 21-03-78)
JL_(1970-84)_13	1977-78	(24-10-77 / 19-04-78)
JL_(1970-84)_14	Oct 78-Apr 79	(06-10-78 / 14-04-79)
JL_(1970-84)_15	1979 (Apr-Sep)	(16-04-79 / 19-09-79)
JL_(1970-84)_16	1979-80	(26-09-79 / 23-05-80)
JL_(1970-84)_17	1980	(14-05-80 / 07-11-80)

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JL_(1992 on)_15	15	(29-04-95 / 17-05-95)
JL_(1992 on)_16	16	(18-05-95 / 18-12-95)
JL_(1992 on)_16A	16A	(08-11-95 / 11-11-95)
JL_(1992 on)_17	17	(21-12-95 / 19-06-96)
JL_(1992 on)_18	18	(19-06-96 / 03-08-96)
JL_(1992 on)_19	19	(23-09-96 / Mar 97)
JL_(1992 on)_20	20	(Mar 97 / Apr 97)
JL_(1992 on)_21	21	(16-04-97 / 12-06-97)
JL_(1992 on)_22	22	(12-06-97 / Oct 97)
JL_(1992 on)_23	23	(Oct 97 / Dec 97)
JL_(1992 on)_24	24	(Dec 97 / Jan 98)
JL_(1992 on)_25	25	(10-01-98 / 22-01-98)
JL_(1992 on)_26	26	(22-01-98 / 13-02-98)

TO BE CONTINUED

Nº 9

.65



NOTE BOOK

No. 561

8/7/94 → ~~20/8/94~~
2/9/94

8/7/94 contd

(1)

(Bond Terms)

Mandurah Fisheries
Inspector (2nd I.C.)

John or Ashley Watts 097 391 065

— at the "fish for sale" place just
south of Callee ~~Road~~ Station on
E side of Old Coast Rd ~~near~~ ^{house}
southern end of Henry Estuary.

— Red fishing boat LF3M39
parked at back.

Airship next to Southern Estuary Rd

— use?

— others around Peel-Henry?
(check air photos.)

Travel down Merrifield (Meyfield?) drain
by canoe.

② 8/7/94 Contd.

Gauge on south side of Island
Rt reads +0.34 m AHD
at 4.25 pm.

Brendan Watts ← Interview of

Int regularly

— the whole 3k bend was
very good from maroon

— also a good at 4.5 to
5 k spot — 30' deep
↑ 4.7 km

Merom always on corners where
their cuts deep.

Black Burn — everybody fishes
near 5 k place with line.

8/7/94 Contd

3

Found mecon dead in small
end of colony — seen 3-4
dead on bottom. One new

Mecon last only 2½ minutes
in "standard colony water"

attempted to catch mecon on
last season — 10 days only
2 ^{people} got by hand — 20 each
6 days nets each + 40.

between 12 noon and 5 pm

Temp highest is best.

19°-25°C only this ^{to} get mecon

Won't come out if cold.

Washed the coco

Between 2.5 → 5 hours.

Days nets from above into holes.

1 person a pair in the case when
catching mecon —

(4)

8/7/44 Contd.

Other people also mention in
those stretches.

Also get *gulgies* at
around 2.3 km.

Tues - Sat - c 9 am - 10 am
Low tides.

Fish - 3 mths.

Henley Estuary 5

Tue 19 Jun 94

Grant & I left Colchester at 7.30 am
and headed for Sth end of Henley Estuary.

Island Pt gauge reads +0.20 m tds
at 9.02 hrs.

adjusted to 35.3 ppt standard at 0955 hrs.
84 m from Island (by range finder)

Station	Time	(m) Depth	(ppt) Sal	(°C) Temp
1	0956	0.1	3.0	13.9
		0.2	3.0	13.7
		0.4	3.0	13.7
1	1002	0.45	4.7 ✓	14.0 ✓
	3 mins	crossing N of Station 1 (260 m)		
0	1009	0.2	3.7	13.7
		0.4	6.0	13.6
		0.6	9.9	13.9
		0.8	11.4	14.5
		1.0	12.6	15.5

⑥ 19 July '94 contd.

Heavy Estuary / River

Station	Time	Depth	Sal	Temp
0		1.2	15.1	15.9
		1.4	18.9	15.9
		1.6	19.6	15.1
		1.8	19.9	15
		2.0		
0	1015	0.1	3.7	13.9
2	1021	0.1	1.5	15.2
		0.2	1.5	14.5
		0.4	1.5	14.2
		0.6	2.4	14.3
		0.8	11.3 v	14.9
		1.0	13.6	15.0
2	1025	1.1	14.0	15.0
3	1029	0.1	1.2	15.4
		0.2	1.2	14.5
		0.4	1.5	14.2
		0.6	2.8	14.2
		0.8	10.5	15.5

19 July '94 contd - Hervey River

(7)

Stn.	Time	Depth	Sal	Temp.
------	------	-------	-----	-------

		1.0	13.5	15.2
--	--	-----	------	------

		1.2	14.2	15.2
--	--	-----	------	------

3	1033	1.4	14.6	15.2
---	------	-----	------	------

4	1037	0.1	0.9	15.1
---	------	-----	-----	------

		0.2	0.9	14.1
--	--	-----	-----	------

		0.4	1.0	14.1
--	--	-----	-----	------

		0.6	3.9	13.9
--	--	-----	-----	------

		0.8	11.9	14.9
--	--	-----	------	------

		1.0	13.3	15.0
--	--	-----	------	------

		1.2	14.1	15.0
--	--	-----	------	------

		1.4	14.5 15.2	15.2
--	--	-----	-------------------------	------

4	1042	1.5	14.5	15.2
---	------	-----	------	------

5	1046	0.1	0.7	15.8
---	------	-----	-----	------

		0.2	0.7	15.0
--	--	-----	-----	------

		0.4	0.7	13.9
--	--	-----	-----	------

		0.6	3.2 9.5	14.4
--	--	-----	-----------------------	------

		0.8	9.5	15.0
--	--	-----	-----	------

		1.0	13.5	15.1
--	--	-----	------	------

⑧ 19 July 94 contd

Henry River

Station	Time	Depth	Soil	Temp
5	1050	1.2	13.7	15.1
6	1054	0.1	0.6	16.5
		0.2	0.6	14.8
		0.4	0.7	14.3
		0.6	4.0	14.9
6	1057	0.8	7.3	15.1
7	1101	0.1	0.5	16.6
		0.2	0.5	15.5
		0.4	0.8	14.6
7	1103	0.5	4.0	14.9

Steady flow from Henry River

0.5m	1111	0.1	0.5	14.7
		0.2	0.5	14.7
		0.4	0.5	14.7
		0.6	0.5	14.7
0.0	1113	0.65	0.5	14.7

19 July '94 contd

Henry River

(9)

Str	Time	Depth	Sal	Temp
0.5K	1117	0.1	0.5	14.7
↓		0.2 ↓	↓	↓
0.5	1118	1.2	0.5	14.7
1.0K	1121	0.2	0.5	14.6
↓	↓	↓	↓	↓
1.0K	1122	1.0	0.5	14.6
1.5K	1124	0.2	0.5	14.5
↓	↓	↓	↓	↓
1.5K	1125	1.4	0.5	14.5
2.0K	1128	0.2	0.5	14.5
↓	↓	↓	↓	↓
2.0K	1130	1.4	0.5	14.5
2.5K	1132	0.2	0.5	14.4
↓	↓	↓	↓	↓
	1133	1.0	0.5	14.4
3.0K	1135	0.2	0.5	14.4
↓	↓	↓	↓	↓
		1.0	0.5	14.4
	1136	1.1	0.5	14.4

(10)

19 July 94 contd

Itterney River

Stn.	Time	Depth	Sal.	Temp.
3.5' K.	1139	0.2	0.5	14.4
↓		↓	↓	↓
3.5	1140	2.2	0.5	14.4
4.0 K	1143	0.2	0.5	14.4
↓		↓	↓	↓
	1145	2.0	0.5	14.4
4.5' K	1149	0.2	0.5	14.4
↓		↓	↓	↓
	1150	1.8	0.5	14.4
5.0 K	1152	0.2	0.5	14.3
↓		↓	↓	↓
	1154	2.4	0.5	14.3
5.5	1157	0.2	0.5	14.3
↓		↓	↓	↓
	1159	5.0	0.5	14.3

Stopped and had lunch on river bank,
then went downstream to Island Point.

19 July 94 contd

Harvey Estuary

(11)

200 m S of Island Pt

at 13.27 hrs

Sta	Time	Depth	Sal	Temp
	1327			
	1327	0.1	1.5	16.0
		0.2	1.6	15.6
		0.4	3.2	15.3
	1328	0.45	5.5	15.5

Depth gauge at Island Pt

reads - + 0.10 m AHD

19/7/94

19 July 94 contd

Harvey Estuary

(11)

200 m S of Island Pt

at 13.27 hrs.

Sta	Time	Depth	Sal	Temp
	1327			
	1328	0.1	1.5	16.0
		0.2	1.6	15.6
		0.4	3.2	15.3
	1328	0.45	5.5	15.5

Depth gauge at Island Pt

reads +0.10 m AHD

at 1334 hrs.

Grant took vehicle & drove to Lake Milarly, Point
Bay Drive, then E end of Cressy wetlands.
I "drove" 12' post from Island Pt to Numbur
Cay, to Brooker I., to E end of Cressy.

19/7/94
cont.

12

Science Platform off Meeting Point

Station	Time	Depth	(ppt) Salinity	Temp (°C)
	1413	0.2	32.7	17.8
		1.0	23.4	16.5
		2.0	32.7	16.5
	1416	2.2 (bottom)	32.7	16.5

Boated on to former bird roosting area
north of Pt Birch. Receded this way
area (almost completely covered) at

1448 hrs Δ

Total

birds in

this

roost

area

4 Puffins

~~12~~ 12

Asp. Terns

~~5~~ 5 Large Pc

1 Darker

These were

1 standing

on sand

on fractionally exposed

There were also

2 Darker

25 m away to

the West, standing in shallow water.

↑
"roosting", with wings spread.

19/7/94 Contd

Peel Inlet

(13)

Boated across to within 200 m of

1504 hr Nimble Cay

There were 30 Egrets standing
around in v. shallow water over the Cay

Also Small Tern (Whiskered?)

and a few Pelicans nearby (swimming).

Shallow water and lack of time prevented
me from going onto the cay area
None of Cay exposed.

Then boated across to

Boodalen I - 1515 - 1525

No birds on it. 2 youths

in 2 boats at E end

Footprints of people + dog.

Many footprints of pelican (or swan?)

on sand area.

No evidence of roosting

1 pelican skeleton (in pieces)

1 reserve sign propped against tree.

Then boated to E end of Greeny marshes &
picked up Crest. Then boated West to

(14)

Boundary Island - 1600 - 1700
hrs

- c 350 pbs on the island (SE)
in 3 main groups

- northernmost had 130 pbs,
most with bright → v. bright
pouch colonies - much preening
in centre of mob - 2 seen
copulating.

- southernmost ^{group} had little colony
& flew off at distance of
c 150 m (we approached on Island)

- central group included c 65
sitting. Some (10-50)
were on nests. 3 eggs
(single) seen at edge of
colony.

Boundary Island (Peel-Harvey) (15)

Sunday 24 July '94

Took Vera & kids to Mandurah with
"Elbo" + 8 hp outboard. Met John + Judy
Dyer for lunch. Launched Elbo on
west side of new Mandurah Luffie
bridge. Took John + Judy to Boundary I.
dropping them at jetty at approx 2.30 pm.
"fished" then met John + Judy
at 4.20 pm. Picked them up &
boated around to SSE side of
the island. Walked in to see
resting pelicans. Approx 150 pelts
were sitting/standing in ~~the~~ a
group where nesting birds were
seen on 19/7/94 (last Tuesday).
Approx 60 of these were sitting.
Impossible to tell ~~how~~ how

(16)

Bonadry I. count - 24/7/84

many were actually on nests but
appeared to be move there last
Tuesday. Watched them for
5 min at distance of approx
60 m, then left the island.

Back to car at approx 5.30 pm,
then drove home.

(17)

25/7/94 - UWA Botany Seminar

Prof Guy Tate - from South Africa

see notes made on Seminar notice

Thurs 4 Aug 94

Grant picked me up in Landcruiser at 7.30am.
Drove to south end of Henry Estuary.

| Solent Pt depth gauge reads +0.39m
at 0925 hrs.

Standard Saln of 35.3 ppt need
35.0 ppt at 0944 hrs.

Then it read 35.3 ! at 0948 hrs.

↖ testing of Hammon salinity bridge.
— perfect!

18 4/8/94 Contd. - Horsey Estuary

Station	Time	Depth (m)	Sal (ppt)	Temp (°C)
1	0950	0.10	17.3	14.4
↓	↓	0.2	17.3	14.6
↓	↓	0.4	20.2	14.8
	0952	0.6 ^{bottom}	20.4	14.8
0	0958	0.2	18.5	14.5
		0.4	18.8	14.5
		0.6	19.1	14.6
		0.8	19.9	14.6
		1.0	20.3	14.8
		1.2	20.3	14.8
		1.4	20.4	14.8
		1.6	20.6	14.8
↓	↓	1.8	20.8	14.8
0	1002	2.0	21.3	14.9
2	1007	0.2	13.9	14.2
↓	↓	0.4	13.9	14.2
no fresh layer (0.1)				

4/8/94 contd. - Harvey Estuary 19

Station	Time	Depth	Sel	Temp.
1	1008	0.6	14.2	14.3
		0.8	14.6	14.3
2	1010	1.0	15.5	14.4
3	1014	0.1	12.5	14.4
3	1014	0.2	12.5	14.4
		0.4	12.5	14.4
		0.6	12.6	14.4
		0.8	12.8	14.4
		1.0	14.3	14.3
		1.2	15.1	14.3
		1.4	16.0	14.4
3	1018	1.6	19.3 18.7	14.5
4	1032	0.1	11.5	14.5
4	1032	0.3	11.5	14.5
		0.4	11.6	14.5
		0.6	12.0	14.4

(20) 4/8/94 Contd. - Harvey Estuary.

Station	Time	Depth	Sal	Temp.
4	1026	0.8	12.5	14.4
		1.0	13.4	14.4
		1.2	15.5	14.4
		1.4	18.2	14.6
		1.6	19.3	14.7
		1.7	19.3	14.7
5	1030	0.1	10.8	14.6
		0.2	10.8	14.6
		0.4	10.8	14.5
		0.6	11.0	14.5
		0.8	12.2 ✓ 12.1	14.4
		1.0	14.5 ✓ 15.6	14.6
		1.2	18.3 ✓	14.6
		1.4	19.5	14.7
		1.6	19.5	14.7
5	1035			

4/8/94 Contd - Haring Estuary (21)

Station	Time	Depth	Sal	Temp
6	1039	0.1	11.9	14.5
		0.2	"	"
		0.4	"	"
		0.6	"	"
		0.8	12.5	14.5
		1.0	14.0 v	14.7
6	1041	1.2	18.9 18.6	14.7
7	1045	0.1	9.8	14.6
		0.2	"	"
		0.4	10.3	"
		0.6	11.7	14.6
		0.8	17.5 v	14.8
		1.0	18.5	14.8
7 1/2	1057	0.1	5.3	14.5
		0.2	5.5	"
		0.4	8.5 v	"
		0.6	17.7 17.9	14.8
		0.8	18.1	"

(22) 4/8/94 Contd - Herney River

Station	Time	Depth	Sal	Temp
7 1/2		0.9	18.1	14.8

0 km	1059	0.1	0.5	14.2
------	------	-----	-----	------

0.2

↓

↓

↓

↓

↓

1101

0.9

0.5

14.2

0.5 km

1104

0.2

0.5

14.2

1105

1.5

↓

↓

1.0 km

1111

0.2

↓

↓

↓

↓

↓

↓

1.5

↓

↓

1 pm Sheldrake with 6 Class I
sheldrake in fast flowing river
at distance 1.8 km

Old Burying
Place
Bridge

1201

0.2

0.5

13.9

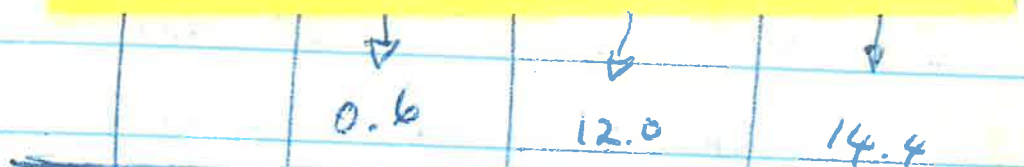
↑

only measured surface

4/8/94 Contd - Harvey River & Estuary (23)

Also saw 1 pr GtTL, 1 pr PeSD
& 2 Mant on the way up

Need
distance
from Old
Blenbury
Rd
Bridge
4/8/94



Re testing of Hannon Salinity
Bridge
Standard soln of 35.3 ppt
read 35.3 ppt at 1322 hr

Island Pt depth gauge read +0.29 m AHD
at 1340 hr

4/8/94 Contd - Harvey River & Estuary (23)

Also saw 1 pr GtTL, 1 pr PeSD
+ 2 Mand on the way up
then c/0 PeSD in lowest reaches
on the way down

200 m from Island Pt

Stn	Time	Depth	Sal	Temp
↙	1.20 pm	0.1	12.0	14.4
		0.2	}	}
		↓		
		0.6	12.0	14.4

Re testing of Hammon Salinity
Bridge

Standard soln of 35.3 ppt
read 35.3 ppt at 1322 hr.

Island Pt depth gauge read +0.29 m AHD
at 1340 hr.

(24)

~~the~~ 4/8/94 contd - Herring Estuary/River

Overall impressions

- river was flowing high and fast (Gert measured height on other picnics) - the highest we had actually experienced.
- few birds on the river (all above for total no. ~~was~~ seen)
- in many places the river was overflowing into adjoining wetlands (incl. farmland)
- the mounds of deposited earth along the banks of the river restrict the overflow into adjoining wetlands.
- the wind was light to moderate and from the SSW all morning (all day?). We had some light rain on way

4/8/94 Contd. - Honey Estuary / River

(25)

up river.

Note - Grant + Dyer Transport did
echo sound of river depth profile
yesterday (3/8/94)

To do

- take ----- up river
- take surface water samples
from river in future
- have standard way of measuring
river height
- licence to catch mussels?
- gear " " "
- note birdlife on future trips.
- more salinity testing in estuary
on every second trip.
- * - ~~also~~ have distances along
river remeasured.
- reinstall old pickets
- examine traces + choose
deep holes to monitor.

(26)

4/8/94 Contd - Lake M'Carthy

Drove to Lake M'Carthy to install
depth gauge on south shore

Lake M'Carthy.

1425 hrs
- Water level was 817 mm down
from top of post against metalence.

was
- Water level also 287 mm down
from top of star picket (depth
of water = 944 mm)

- Took water sample at star picket.

- Depth point = 1.167 m
at 3.02 pm

found near centre of lake - found
by coming around in boat & testing
depth with oar.

(27)

4/8/94 - Creery Mews

4:45 pm start. [near to Mole
Peninsula]

(from rooftop of vehicle parked)

- 102 S oars - Creery Lagoon

(most on S side - S wind)

- 25 Pheasants feeding in Creery Lagoon
(central west area)

- 13 Pheasants + 2 S oars in the Creery
Island "lake".

Little feral bird heard in scrubland.

Also:

19 Great Egrets] shores of lagoon

5 Little Egrets]

20 Avocets in Creery I. lake

1 Juv Shrike on S side of Creery Lagoon

7 w. ducks in Creery I. lake.

4 LBC feeding in Creery Lagoon

1 Yb Sparrow in tree on Creery I.

(28)

4/8/94 contd - Cooley Shores contd

2 Caspian Tern feeding in lagoon

(Egret ^{+ duck} ~~removes~~ underestimates)

Confident there are no Banded Skitt.

5.00 pm - to north of vehicle -

40% Avocet

11 Banded Skitt

1 Skink (0-1)

all feeding in bare shallow area
closest to Caspian tree line

area to be ~~lost~~ lost to development

16' prof fishing boat heading S between
Cooley + Channel Is. at 5.05 pm.

4/8/94 Gorda - Cerey Meadows cont'd (29)

5.15 pm

53 3w Sklt

41 Avocet

94

roosting together
behind sycamore
in flooded part
of dry lake zone

Further west in dry lake zone are

2 Swans + 2 Skltbills.
nest mound
1 nest mound ??

- 1 SaeI overland

- Greenback heard

- Wt Chit in sycamore.

Head back to Wajeeb Rd.

Several pairs of PBD in sycamore
pools on way.

Wajeeb Rd water level marker
reads +0.22 m AHD at 5.35 pm.

1 G. Egret, 1 pr PBD + 1 roseate
in flooded sycamore / pools.

↑ flew 6m.

(30) 4/8/94 Contd. - Creery marshes

Arrived back at Colchester
around 7pm.

To do: - need good air
photo of Creery marshes
- choose survey route
(2 people?)

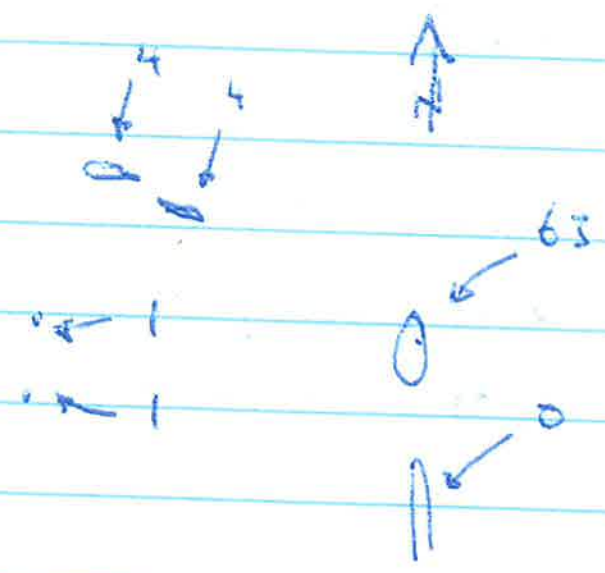
- timetable

- discuss with Mike Bepko

60m — 2nd Block of

170

63 swans with one nests
on island instead of Linné colony
at 0945 hrs.

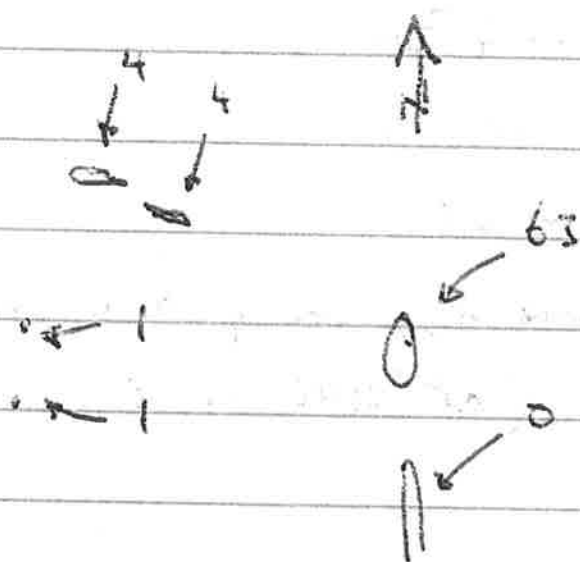


Total = 73 member swans

60m — 2nd Block of g.

170

63 swans sitting on nests
on main island of Linné colony
at 0949 hrs.



Total = 73 nesting swans

(32)

11/8/94 Control

NK Shore

Womans Cove

0957hr

2 Cattle Egrets in lake
to north of Wm B man
island !

050 BWSH

- 43 m
- 49 m
- 63 m
- 47 m
- 60 m
- 63 m

then flew downwind 400 m behind
me (at 1100 hr)

33

Worming floodgate gage board (Wtst)
reads $+0.12$ m 4 14 D
at 1139 hrs.

No boards in

Water flowing in ^{semi-} strongly past
5th + 6th $\rightarrow$ flaps valves (from E end)

Waste floodgate gage board (Wtst)
reads $+0.33$ m (estimated)
at 1150 hrs.

No boards in

Water flowing out thru
all flaps valves.

- ① Peter Brown Cooper ^{said what} ~~described~~ the purpose of the meeting is and then described the EPP procedure
- ② Andrew Indryffe talked about the significance of the turtle, its biology, and what COWS has done / is doing to protect it / manage it / increase its numbers.
- ③ PBC then listed the threats to the tortoise & its habitats and explained how the policy was designed to address each of these threats.

Public Meeting at

Tues 23/8/94

7.30 pm

re Western Wemyss to be Draft Environmental
Protection Policy

① Audience said why weren't we
consulted in the "Preliminary
Consultation" phase.

② Lack of recognition of separate roles
of people — eg Peter Brown-Croft
versus Andrew Dudgeon.

③ NAB is to explain "why" turtle
~~is the turtle~~ should be protected
and

④ "What are you going to do about controlling
the weeds — eg ^{Vegetation} Turps + Patterton Cause?"
"What control work has been done"

36 Questions / Issues 1 res 23/8/94 Control
Control

36 Questions / Issues / nes
Control

- ⑤ "What about the people?"
- ⑥ "Why were you late to help control a wildfire?"
- ⑦ "If the govt wants the land, why don't you buy it?"
- ⑧ "What's to stop us (landholders) putting in all the dams or ditches we like before the policy comes into effect?"
PBC answered "I hope you wouldn't be so irresponsible."
- ⑨ Are you proposing to put caveats on titles?
- ⑩ "Farmers have to update or die" (the EPP limits/presents future ~~uses~~ uses)
- ⑪ ~~The~~ The landowners intend to subdivide to provide their own ~~subdivision~~ superconnection.
- ⑫ Why don't you put the tortois in a zoo
- ⑬ How do you justify your buffer zone boundaries?

Tues 23/8/94 Contd (37)

Lessons Learnt

- ① Have an independent chairman
- ② Go to the landholders at the very outset, preferably not ~~by~~ ^{by means of} a public meeting.
- ③ Andrew should have had someone from the reserve management with him to answer specific questions about the management of the reserve.
- ④ EPA needed (and had) an officer present to "take minutes" ^{incl.} ~~and to~~ ^{to} record ~~the~~ suggestions.
- ⑤ Try to avoid raising your voice in dealing with interjections/questionnaires.
- ⑥ Someone has to know the reserve intimately to give sound advice on values, impacts etc.
- ⑦ It's useful to have expertise (i.e. an expert) in each of the major areas of concern e.g. Water Authority re drainage.

38

Tues 23/8/94 Contd
Questions / Answers Contd

(14) Concern expressed about Count (Crown + EPA) getting into bed with big companies but leaving small ~~business~~ men on land out of it.

(15) Why haven't you been fixing up all the things that are already going wrong / shouldn't be happening? (Locals raised several of these)

(16) Re buffer boundaries - why is my block in, but Joe Bloggs's out?

(17) "Dr Burridge - to what extent do you agree with the EPA"

- answer - "I agree that some form of zoning & buffering is necessary to prevent the tortoise from going to extinction."

39
Tue 23/8/94 Contd
Lessons learnt contd

(8) Don't go to the public with poorly researched/prepared proposal - it will be badly damaged by ~~local~~ ^{local} with intimate knowledge of the area.

(9) Introduce panel members to the audience.

(10) It's a bit rich to place a lot of reliance on landlords (whose educational levels vary) putting in written submissions on details of the policy.

(40)

~~Tues 23/8/94 Conf~~
~~Prep for Lakes Conf~~

Wed 24 Aug 94

Lunch of ~~the~~ "Encouraging Wise
Use of Perth's Wetlands" broadsheet
by WAPWA + EPA at Deakin
Wetland Education Centre near
Bibra Lake

TO DO: (1) get copy of speech
by head of WAPWA (in place of
Minister). It talks about
the broadsheet info being integrated
into land use planning - possible
approach for CMAA to adopt
at Bursledon.

(2) Study "Urban Water Design"
documents (from DPUD) to
be well informed on this aspect
at Bursledon.

24/8/94 Contd

and start 29/8/94

(41)

③ get all the wetland resource maps for the Ben wetlands area

④ Have TO make 2 wetland plant herbaria for ~~Ben~~ Ben (+ elsewhere)

Jenny Davis' seminar at unit

Botany Dept - Mon 29/8/94

"The Conservation of Aquatic Ecosystems in Central Australia"

- Explorers diaries are good sources of info on aquatic sites (watering points) in arid Australia - e.g. Crites in central Australia

- "waterpenny" - collection

- Horn Horn (HORN) Expedition to Central Australia in 1894. ~~But~~ All

(42) 29/8/94 Contd

of what they found there in 1884
is still there! - which is
v. different to the mammal attraction
- "leopard roach" - are actually
chromomel larvae with mucous
that captures detritus which they
eat.

JD's ideas

Display case? -
Corpuscle - the Dargachis of the Isotricha
- the aquatic plants of " "
- the Scaphis of " "
- etc - the fishes of " "
Line drawings - at change? - expressive?

- JD was excited to find an
intact, natural fish fauna
with no introductions.

29/8/84 Contd.

(43)

- the yellow Chama desinator
occurs in Central Australia.

Probably natural occurrence but
people are now moving it around
Central Australia.

Concern that
their browsing activities may be
causing more trees on banks of
waterholes to fall over due to
browsing activity. (ref Peter Latz)

- 3 waves of ~~the~~ human activity
- aborigines, pastoralists, tourists

- CANT are fencing cattle out from
some waterholes (+ creeks + drybeds)

- some have banks covered
by ^{introduced} couch grass!

- swimming by tourists may have
impact but Jonag's data didn't
say so.

(44) 29/8/94

- Groundwater feeds all these waterholes. Once George shows on the same again!

For Jussellton

① Vehicle: ^{new vehicle if poss} trade Ford on lighter 4WD Str Wagon - Pajero has best driving position - tow bar, roof rack, walk around ply, ladder to roof, transfer points from Ford, ^{inside motor} 5000 jacks, bridge points, lighting, ~~no~~ water tank, ~~spare fuel tank (even smaller)~~ 500 L fuel range, 2 batteries, air condit, transfer radio, need VHF for Din radio, outboard bracket on tow bar shovel under roof rack, trip master bumper, false floor for pickets, tow bar,

transfer receiving light from Front., 2 power
points - back. — do ASAP.

② ~~Salinity~~ Salinity, Temp, Dissolved ~~oxygen~~ (tph?)
(with depth markings) — to 55m
preferably to 10m. — (max \$300)

④ Bins — trade Bins on new 10x40s?
(max \$500) or new good Japanese.

⑥ Fridge — trade old for new (higher)

③ Boats — trade dinghy for new 12' boat

⑤ Outboard — trade old 8hp for new 8hp.

(46)

30/8/84 - Harvey Estuary

Left Colchester 0735 hrs with GBP
in F350 with 12' post + 85 lbs outboard.
Island Point gauge reads +0.05 m AHD
at 0948 hrs.

Hemmen salinity probe read (without adjustment)
35.3 ppt when put in the 35.3 ppt
standard at 1008 hrs.

Stn	Time	Depth	Sal	Temp
0	1010	0.10	14.7	16.0
0	↓	0.20	14.8	15.9
0	1012	0.30 0.30 ^{bottom}	14.6	16.3

30/8/94 Cold

Herring
Estuary

(47)

Stn	Time	Depth	Salinity	Temp.
1	1018	0.1	16.1	15.8
		0.2	16.5	15.8
		0.4	22.2	15.9
		0.6	22.9	16.0
		0.8	22.9	16.0
		1.0	22.9	16.0
		1.2	22.9	16.0
		1.4	22.9	16.0
		1.6	22.9	16.0
		1.8	22.9	16.0
	1021	2.0	22.9	16.0
2	1032	0.1	13.4	15.5
		0.2	13.4	15.5
		0.4	13.4	15.5
		0.6	14.1	15.0
		0.8	17.3	15.1
2	1034	1.0	19.5	15.5

(48)

30/8/94 Lough

- Kerry Estuary contd

Stn	Time	Depth	Sal.	Temp.
3	1039	0.1	14.1	15.6

		0.2	14.1	15.6
		0.4	14.1	15.6
		0.6	15.3	15.1
		0.8	19.0 v	15.7
		1.0	22.0	15.7
		1.2	22.2	15.8

4	1046	0.1	13.5	15.7
		0.2	13.5	15.7
		0.4	13.8	15.7
		0.6	15.5 v 14.5	15.4
		0.8	22.0	16.0
		1.0	22.2	16.0
		1.2	22.4	16.0

	1050	1.4	22.4	16.0
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5	1054	0.1	12.8	16.0
		0.2	12.8	16.0

30/8/94 ^{cont'd}

Herring Estuary Cont'd

(49)

Sta	Time	Depth	Sal	Temp
5	1057	0.4	12.8	15.9
		0.6	19.0 v	15.9
		0.8	22.2	16.0
		1.0	22.3	16.0
6	1102	1.2	22.3	16.0
6	1104	0.1	13.4	16.7
		0.3	13.4	16.7
		0.4	13.4	16.7
		0.6	21.0 v	16.5
7	1108	0.8	22.3	16.5
7	1111	0.1	13.0	17.0
		0.2	13.0	17.0
		0.4	13.0	17.0
		0.6	21.0 20.5	17.0
7.5	1113	0.1	11.3	16.8
(1'30")		0.2	11.8	16.9
	1115	0.4	13-20 v	17.2

30/8/94 Contd - Heavy River Contd.
 (50)

Str	Time	DyK	Sz	Temp
-----	------	-----	----	------

0.0 km	1124	0.1	0.6	15.5
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↓	↓	0.3	↓	↓
↓	↓	↓	↓	↓

	1125	0.6	0.6	15.5
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0.5 k	1150	0.1	0.5	15.5
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↓	↓	0.2	0.5	15.5
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↓	↓	0.4	0.5	15.5
---	---	-----	-----	------

↓	↓	0.6	0.5	15.4
---	---	-----	-----	------

↓	↓	0.8	0.5	15.4
---	---	-----	-----	------

	1153	1.0	0.5	15.4
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~~1.0 k~~ Cattle hoofprints + dung on west bank.

1.0 k	1155 1200	0.1	0.5	15.3
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↓	↓	↓	↓	↓
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1.0 k	1200	0.6	0.5	15.3
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30/8/94 Contd - Heneg River Contd (51)

Str	Time	Depth	Sec	Temp
1.5K	1203	0.1	0.5	15.1
↓		↓	↓	↓
↓	1204	1.0	0.5	15.1
2.0K	1207	0.1	0.5	15.1
↓		↓	↓	↓
↓	1207	0.8	0.5	15.1
blue tag.	1209	0.1	0.5	15.1
(2.1K)		↓	↓	↓
	1211	<u>2.8</u>	0.5	15.1

3 Small Class 2 ducklings + 1 pr. Sheld
 in river, where water joins in
 from east

blue tag	1214	0.1	0.5	15.1
(2.3K)		↓	↓	↓
	1216	<u>2.2</u>	0.5	15.1

(52) 30/8/94 Contol - Hervey River Contol

Stn	Time	Dryk	Sal	Temp
2.5K	1224	0.1	0.5	15.2
↓	↓	↓	↓	↓
	1224	1.0	0.5	15.2
Blue type	1227	0.1	0.5	15.2
"pencil sed"	↓	↓	↓	↓
(2.8K)	1229	3.3	0.5	15.2
3.0K	1232	0.1	0.5	15.3
↓	↓	↓	↓	↓
	1233	1.0	0.5	15.2
blue type	1235	0.1	0.5	15.5
(3.3K)	↓	↓	↓	↓
←		2.5	0.5	15.5
3.5	1239	0.1	0.5	15.5
↓	↓	↓	↓	↓
	1239	1.6	0.5	15.5
4.0	1243	0.1	0.5	15.9
↓	↓	↓	↓	↓
	1244	1.1	0.5	15.9

30/8/94 Contd

Harvey River Contd (53)

Stn	Time	Depth	Sal	Temp
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1 pm Mand with 1 Class III duckling
on west bank

blue type (4.3K)	1247	0.1	0.5	16.0
		↓	↓	
	1247	1.8	0.5	16.0

900 mm from top of steep bank (vertical)
down to water surface (at 1250 hrs)

blue type (4.4K)	1252	0.1	0.5	16.1
		↓	↓	↓
	1253	2.4	0.5	16.1
4.5K	1303	0.1	0.5	16.1
(now 2 wood pegs)		↓	↓	↓
	1303	0.8	0.5	16.1
blue type (4.8K)	1306	0.1	0.5	16.3
		↓	↓	↓
	1307	2.2	0.5	16.3

(54) 30/8/94 Contd

Harvey River contd.

Sta	Time	Dye	Sal	Temp
5.0K.	1313	0.1	0.5	16.3
↓	↓	↓	↓	↓
↓	1314	1.6	0.5	16.3
blue type	1317	0.1	0.5	16.3
↓	↓	↓	↓	↓
↓	1318	1.6	0.5	16.3
5.5K	1323	0.1	0.5	16.4
↓	↓	↓	↓	↓
↓	1324	4.0	0.5	16.4
6.0K	1333	0.1	0.5	16.5
↓	↓	↓	↓	↓
↓	1333	1.0	0.5	16.5
blue type	1346	0.1	0.5	16.5
↓	↓	↓	↓	↓
↓	↓	2.3	0.5	16.5

30/8/94 Condit

Harrowey River Condit

(5.5)

Str	Time	Depth	Sal	Temp
blue	1338	0.1	0.5	16.5
type	↓	↓	↓	↓
	1339	2.6	0.5	16.5
6.5k	1344	0.1	0.5	16.5
↓	↓	↓	↓	↓
	1344	1.0	0.5	16.5
7.0k	1354	0.1	0.5	16.4
↓	↓	↓	↓	↓
↓	1354	2.0	0.5	16.4
7.5k	1400	0.1	0.5	16.3
↓	↓	↓	↓	↓
↓	1400	1.1	0.5	16.3
* blue type	1416	0.1	0.5	16.6
between	↓	↓	↓	↓
5.5k	↓	↓	↓	↓
and 6.0k	1417	2.4	0.5	16.6

1 Person on bank between 4.5k and 4.0k

30/8/94 Contd - Kooragang River Contd

(56)

Stn.	Time	Depth	Sal	Temp
blue tag	1507	0.1	0.5	16.0
between 2.0 + 1.5 k		↓ 1.6	↓ 0.5	↓ 16.0

ISR has - 1 pr ~~Shel~~ Shel with 6
large Class I doubletons in river
at approx 0.8 km.

Note - on way up river in AM
we saw 1 pr Shel with 14 small
Class I doubletons on river around
5.0 km to 5.5 km.

200 m S of Island Pt	1547	0.1	11.8	18.3
		0.2	11.8	18.3
	1547	0.3	11.8	18.3

Note that the water level and flow rate
in the river were low.

Harvey River + Estuary Contd

~~30/8/94~~ 30/8/94 Contd.

(57)

Redescribed Schmidt meter against
35.3 ppt standard at 1548 hr.

It read 35.3 ppt.

Island Point gauge

Reads: - 0.09 mAH

at 1556 hr.

30/8/94
Creery Lagoon Start 1644 hr.

Swan - 27

1.5.1

each Lagoon

Need

Diodes for

"blue light"

silica (>5K)

30/8/94

Gytl - c 60

PaDD - c 260

Harvey River + Estuary Contd.
~~30/8/94~~ 30/8/94 Contd.

(57)

Retested Schmidt meter against
35.3 ppt standard at 1548 hr.
It read 35.3 ppt.

Island Point gauge
Reads: - 0.09 mAHN
at 1556 hr.

30/8/94
Creevy Lagoon Start 1644 hr.
Swan - 27

Li Gob - several heard

BW Skitt - 158

Banded Skitt - 15

Avocet - 1

Pelican - 2

Yb Spornbill - 5

GyTL - c 60

PaBD - c 260

(58) Much green plant growth evident
in lagoon.

Shel - 58

S. W. Gull - some dens

Whisking birds - 1 flying along
N shore of lagoon.

Wilson's Sooty / Martin
major. Waders - 2

Finish 1706 hrs.

Stage gauge at E end of
Crane Marsh reads +0.13
m AHD at 1722 hrs.

1 Great Egret in pool 10m
N of lagoon.

(60)

(Sneakers)

Pelican Pt. - Thru 1 SEP 94

approx 4.00 → 5.20 pm. Went to see
the area of E. tree that had been felled.

15 Pelicans

100+ Sooty Gulls

swarms of
Cormorants

(including Great
Cormorants)

all on the spit at end of
Pelican Pt.

In the main lagoon were 16 B25 Skuas
waiting about feeding. On the
southern shore of the lagoon, among the
rushes, was 1 P200 with a number
of small Class I ducklings. The adult
had them under the cover of the
rushes when she (?) saw us.

~~18/9/94~~

2/9/94

Bon accommodation

(6.1)

Eric Scott

Fenny Tully - was Engineering Services
is now Accounts.

↑ - Home west on 6 EITP

1 SEP 94 World - Pelican Pt.

A pair of Shelducks with 11 large Class I
ducklings swimming on the river landed
on the shore at the tip of Pelican Pt.

There was 100+ Silver Gulls all around
and among this family group but none
showed any interest in the ducklings.

Presumably they were considered too large.