

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 (03-07-94 / 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_(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

Jim Lane's Field Notebooks Index

(Revised Index of 11/5/2014)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
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)

Field Notebook - No 8

.85

Need distance for
"Station 7.5"

and Old Burroughed Bridge

21 May 94 → 8/7/94

Saturday 21 May 94

(1)

Vernygin + I left home approx 9.30 am and drove in A350 to Island Point (the south end of Hervey Bay). Landed 12 ft punt and set out to do salinity profiling in lower Hervey Bay and Hervey River.

Sat 1126 am : ~~1126~~ + 0.25 is
staff

reading of a gauge on south side of
Island Point (Morne + Herborns gauge?)

See maps for data and locations of Stations 1 and 2. See maps for location of stations referred to below. Note that salinity meter was playing up — at first it didn't work on the 32-42 ppt scale (Hannan salinity "bridge")

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
3	1235	0.2 (top)	18.6	35.5
3	1236	1.7 (bottom)	18.4	35.7
4	1241	0.2 (top)	18.7	35.3
4	1242	1.5 (bottom)	18.6	35.2

② Sat 21 May 94 contd

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
5	1247	0.2 (Top)	18.5	34.9
5	1248	1.4 (bottom)	18.5	34.6
6	1252	0.2 (top)	18.9	34.4
6	1253	0.9 (bottom)	18.9	34.3
7	1257	0.2 (top)	18.3	32.6
7	1258	0.7 (bottom)	18.3	32.5
8	1307	0.2 (Top)	17.8	4.3
8	1309	1.6 (bottom)	18.1	e32
9	1314	1.3 (bottom)	18.3	c32
9	1315	0.2 (top)	18.0	3.6
10	1320	1.2 (bottom)	18.9	c32
10	1321	0.2	18.0	2.1
10	1322	0.6	18.9	31.4
10	1322	0.4	18.1	3.5 (unstable)
11	1327	0.2 (top)	18.0	2.0
11	1328	0.4	18.0	2.4

21 May 94 contd

(3)

Stn	Time	Depth (m)	Temp (°C)	Sal (ppt)
11	1329	0.6	19.2	31.9
11	1329	1.1	19.1	32.2
12	1333	0.2	18.0	2.2
12	1334	0.4	18.1	3.1
12	1334	0.6	18.8	27.4
12	1334	0.8	19.3	31.9
12	1335	1.4 (bottom)	19.4	31.9
13	1340	0.2	18.0	2.6
13	1340	0.4	18.0	2.7
13	1340	0.6	18.7	24.0
13	1341	0.8	19.1	31.2
13	1343	1.9 (bottom)	19.2	32.0
passed first major band (10 left) and first minor band at 1.24 min				
14	1348	1.5 (bottom)	19.2	32.0
14	1349	0.8	18.9	27.5
14	1349	0.6	17.8	4.2
14	1349	0.4	18.0	3.2
	1349	0.2	17.9	3.0

on band to right

21 May 94 contd

(4)

40 m upstream of beach with sandy beach

Station	Time	Depth (m)	Temp ($^{\circ}\text{C}$)	Salinity (ppt)
$\Delta 15'$	1412	1.20	18.8 18.8	24.6 24.6
15'		0.80	17.7	5.0
15'		1.00	18.8	26.1
15'		0.6	17.7	3.2
15'		0.4	17.6	2.6
15'	1414	0.2	17.7	2.4
Pine Bar?				
16	1420 hr	1.0 (bottom)	17.5	3.0
16		0.8	17.5	3.0
16		0.6	17.4	1.9
16		0.4	17.4	1.6
16	1422 hr	0.2 (top)	17.5	1.4
17	1428 hr	2.1 (bottom)	19.2	32.0
17	1430	1.8	19.3	31.2
17		1.6	19.2	31.1
17		1.4	19.1	31.0
17		1.2	18.9	29.5
17		1.0	18.6	28.1

21 May 94 contd

(5)

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
17		0.8	17.7	11.8
17		0.6	17.4	1.2
17		0.4	17.4	1.0
17	1434 hrs	0.2 (top)	17.4	0.9
18	1442 hrs	1.4 (bottom)	18.8	30.4
18		1.2	18.5	26.9
18		1.0	17.3	1.7
18		0.8	17.2	1.4
18		0.6	17.3	1.1
18		0.4	17.3	1.1
18	1444	0.2 (top)	17.3	1.1
19	1450 hrs	1.3 (bottom)	18.2	24.5
		1.2	17.9	19.6 (min)
		1.0	17.1	1.2
		0.8	17.1	1.2
		0.6	17.2	1.2
		0.4	17.2	1.1
19	1453 hrs	0.2	17.2	0.9

21 May 94 contd

$T_e < 0.5$

Station	Time	Depth (m)	Temp ($^{\circ}\text{C}$)	Sal (ppt)
20	1459	0.7 (bottom)	17.1	0.4
		0.6	"	"
		0.4	"	"
20	1500	0.2 (top)	"	"
hit bar with propeller				
21	1509	0.6 (bottom)	17.1	< 0.5
21		0.4	"	"
21	1511	0.2	17.2	"
22	1516	0.5 (bottom)	17.3	< 0.5
22		0.4	"	"
22	1517	0.2	"	"
23	1524	0.8	17.4	< 0.05
23		0.6	"	"
23		0.4	"	"
23	1526	0.2	"	"
24	1535	1.6 (bottom)	17.4	< 0.5
24		1.2	"	"

~~21~~ May 94 Contd

(7)

Station

24

24

24

24

24

1537

0.2

21/5/94
Need to
work out
distances
for these
stations

by (ppt)
0.5

Then returned downstream to Island Point
On the way we met new owners of lot - - - - -
They claimed people were catching Morone in the
river at their place + upstream during last (summer)
Morone season.

Tide gauge on south side of Island Pt
read +0.08 m at 1730 hrs

Then loaded boat onto vehicle + drove
to Mendon - booked in to Pennsville
Hotel.

²¹
~~20~~ May 84 Contd

(7)

Station	Time	Depth (m)	Temp (°C)	Salinity (ppt)
24		1.0	17.4	26.05
24		0.8	"	"
24		0.6	"	"
24		0.4	"	"
24	1537	0.2	"	"

Then returned downstream to Island Point
On the way we met new owners of lot -----
They claimed people were catching Morone in the
river at their place + upstream during last (summer)
Morone season.

Tide gauge on south side of Island Pt
read +0.08 m at 1730 hrs

Then loaded boat onto vehicle + drove
to Mendocino - booked in to Pinnacles
Hotel.

⑧ Set 21 May 94 cont'd

- Although the number of ducks (Gyl, Pab, et al) we pushed ahead of us was large + impressive, it seemed less than the number encountered the previous Friday (13 May 94) by Glen Clarke and me. Also noticed that very few were back on the River when we returned downstream (1540 → ~1630 hr) — implications for breeding + disturbance.

- Recorded White-breasted Noddies in Esomine among delta banks.
- Note that the ~~occ~~ occasional Coccyzus ~~obs~~ occurs along the river banks all the way up to Station 24 (on the north side).

9

Sun 22 May 94

Drove from Pennant Hotel to South Yundup

- good place to "lunch" Angus is Water

Randomly Reserve ~~at~~ at S. end of Yundup Carls

- go down Kings Rd to get to it.

- met farmer with reehorses on farm adjacent

Robert Bay Nature Reserve. He said before Channel opened

he jugged his horses (behind vehicle) on extreme flats

in summer - now he has to use trucks in the Nature Reserve!

- Had lunch in Pigeon.

- 2pm - walked S. along Robert Bay

drain from Estuary - took 2 water

samples in drain & one on estuary

side of floodgates

Gauge on S. side of Robert Bay drain

flapvalves read 0.90 m at 2.55 pm

Water looking in past flapvalves.

(10) 22 May 84 Contd

22/5/84 contd.

4:05 p.m. — Bridge (Old Dunalong
Rd) over Hervey Estuary.

Measured salinity in damp. midstream
(from top of road bridge). Temp. was

17.4°C top to bottom and

salinity was ≤ 0.5 ppt top to bottom
(0.2 m, 0.8 m and 1.0 m). The

depth was fractionally over 1.0 m.

Note there is a ~~water~~ authority gauging
station here!

Gauge reading on south side of
Golark Pt. at 4.31 p.m. = 0.37 m

22 May 94 contd

(11)

Map of sampling point in Robert Bay
Drain



12

22 May 94 contd



Robert Brown picked me up in Commodore at 7 am. (13)
We headed for Bassettton with a stop at Island Pt
Start Thurs 26 / 5 / 94 (Harvey Estuary) on the way

Island Pt gauge (nth side of Pt)

= 0.165 m at 0829 am.

Checked WATA water level recorder at Warrung
Estuary floodgate to see method of attachment.

1032 hrs - Warrung Floodgate gauge board (WATA)
read — 0.27 m.

↑ (ie minus 0.27)

Swan Lake: I replaced all nest markers
(on top of nests) into side of nests &.

1113 hrs: — Nest N° 263 — 2 small
~~clumps~~ clumps of "Conch" in cleared area around
nest mound. Also a more extensive area
than the scrubline to NE of nest 263.

1250 hrs:
Total number of swans 107 Swans (GBP)
in Swan Lake 105 " (me)
→ 106
CAUL gauge read 0.085 m (at 1250 hrs)

(14)

Th 26/5/94 Gndl (PM) Swen Lake. Selicornia

Also Rock Parrots (saw 1 or 2 flocks of 5-10). Scaphine
near end of seeding — Rock Parrots eat seeds?

Installed Wannup Estuary water level
recorder on fence line in mid estuary

Access is from south side, thru Fornell's
property. Key is in gatepost.

Installed Vase^{Estuary} water level recorder next
to WAWA gauge in front of Dennis Haddon's property
read 0.100 m at 1555 hrs.

Wannup Estuary Floodgate at 1610 hrs
was — 0.24 m AHD (ie minus 0.24 m)

CAM gauge at E end of Wannup
Estuary ~~was~~ was above water
level (ie dry at base) at 1616 hrs.
Lake bed level at gauge was 0.00 m (correct)

26/5/94 cont'd (P.M.)

(15)

Shen Lebe again (to check that water level recorder was working OK)

Water level

recorder read 94.1 at 1640 hrs

and gauge read 0.084 m

units??

Vasse Estuary floodgates

= +0.08 m (measured) at 1720 hrs.

Water level higher on ocean side - all

flap valves closed - most boards

in, but water ~~going in~~ leaking

in to depth of ≈ 0.5 cm over

the top board of N° 6 (from S side end)

Leaking just above board of N° 10 end

11 (a less fast) also

END OF DAY

Start Fri 27 May 94 (AM) left Vesse Hotel at 8 am
 and drove to S side of
 VessB Colony.

(16)

Vas II colony

(Nest) Tag No. Top Elev. Ground Elev.

Datum

1.360

~~1.454~~

21. 17062

0.920

1.517

17008

0.946

1.507

17075

0.879

1.510

17097

0.888

1.513

17094

0.922

1.515

17069

0.911

1.426

17070

0.862

1.488

17092

0.961

1.516

17054

0.901

1.478

17095

0.895

1.494

17043

0.890

1.547

17006

0.940

1.510

17083

0.871

1.535

21. 17067

0.865

1.445

↑ installed these new nest legs (Sweeney birds)
 today.

27 May 94 Gmld (AM)

VasB colony contd.

17

Tag No.	Nest Elevn	Ground Elevn.
17029	0.933	1.405
17012	0.882	1.513
17017	1.054	1.464
17021	1.260	1.483
17074	1.181	1.470
17013	0.990	1.400
17030	0.953	1.434
old nest 311	0.915	1.470
17076	0.926	1.471
old nest 312	0.909	1.442
17090	0.951	1.372
old 310 17099	0.972	1.449
old nest 309	0.909	1.488
17025	0.934	1.526
17009	0.831	1.455
17073	0.941	1.412

[NB "old nest" tags were the original type we made in 1993 and installed previous to this trip.]

27/5/94

Ver D Colony Control (AM)

Town	Net Elevn	Ground Elevn
17037	0.738	1.384
17064	0.832	1.384
17034	0.840	1.497
old key 315	0.957	1.511
old key 317	0.943	1.494
17049	1.037	1.521
17086	1.162	1.656
17042	1.045	1.656
17045	0.913	1.334
old key 321	0.894	1.373
17084	0.852	1.431
17080	1.045	1.569
old net 323	0.935	1.525
17022	1.002	1.599
17098	1.044	1.559
17050	0.861	1.417

27 May 94 Gould (AM)

Nas B colony contd.

(19)

Tag No	Nest Elevn	Ground Elevn
17002	0.962	1.417
old nest 325	0.800	1.417
old nest 329	0.827	1.376
17018	0.980	1.344
17041	0.845	1.344
old tag 330	0.838	1.376
17003	0.940	1.388
17053	0.911	1.385
17089	1.023	1.355
17038	0.957	1.385
17088	1.006	1.501
17066	1.017	1.490
17047	0.972	1.605
17044	0.959	1.550

Total of 57 nests had elevations measured.
 [11 of these had "old tags" (= "old nests")]

(20) 27 May 94 Lived (AM) Ves B colony contd.

Nest No. Nest Produced Cygnets?

17034
old tag
315

def. yes
" "

317

" "

17042

" "

17084
old
321

prob. no — old fragments deep.

def. yes

17045

" "

17080

" "

17022

" "

old
323

" "

17098

" "

old
325

" "

17002

" "

17050

" "

17038

" "

17018

" "

27 May 94 Contd. (AM)

Vas B colony contd.

(21)

Nest No.

Nest Produced Cygnets?

17089

def yes

17053

" "

17003

" "

17041

" "

old
329

" "

old

330

" "

17088

" "

17066

def no

17044

def yes

Totals

49 nests were "def yes"

7 " " "def no"

1 " " "prob. no"

57 nests

including nest
two pages.

Contd. next page.

(22) 27 May 94 Contd (AM) Vas B colony contd

Nest No.	Nest Produced Cygnets?
17047	def yes - e.f. u. s.m.
17062	def yes -
17008	def yes
17075	def yes
17097	def yes
17094	def yes
17069	def yes
17070	def yes
17054	" "
17092	" "
17045	def no - prob not nest
17043	def yes
17006	" "
17067	" "
17083	" "
17029	" "

27 May 94 Contd (AM)

VasB colony ⁽²³⁾ contd.

Nest No.

Nest Produced Cygnets?

17017

def no

17074

" "

17013

def yes

old
17312

def no

17030

def yes

old

311

" "

17076

" "

old

310

" "

17090

" "

old

309

def no

17025

def yes

17012

" "

17009

" "

17073

def no

17037

def yes

17064

" "

Note that it was
very easy to determine
whether nest had ~~been~~
eggs hatched out
in 1993.
~~2990~~ = old
310

All successful
nests had eggshells
& eggshell fragments (large
quantities) just beneath
surface of nest.

finish 1110 hrs

(24)

27/5/84 Contd (PM)

Had lunch in BSn

1235 hrs - collected water sample
from W end of Vasee Estuary
(accessed from Legner Rd).

Vasee Estuary floodgate jettied board
reads (meshed) + 0.06 m AHD
at 1245 hrs.

Water beating ~~past~~ over boards of
gate N° 6 as per yesterday.
Also N° 7.

Sp. Chy past boards of 8.

Now pushing 5 cm deep over boards
of ~~8~~ N° 10.

Pushing past boards of 11

And less so past boards of 12.

Water level higher on ocean side of
floodgates.

27/5/94 Contel (PM)

~~27/5/94~~

(25)

Downloaded data from Verse logger
at approx 1310 hrs 1305 hrs

Gauge near logger reads 0.100 m AHD.
at 1310 hrs precisely

Went to Womung B Colony - from S shore.

Site	Elevn.	true height is -0.105 m AHD (at 2 pm)
Datum	1.431	
Nth end (1)	1.503	Elevations between the two islands of Wom B colony - to calculate depth of fox access.
(2)	1.540	
(3)	1.530	
(4)	1.538	
Sth end (5)	1.506	
Sth end (6)	1.369	

Took water sample here (Wom B)
Back at vehicle 1420 hrs

(26) 27/5/94 Cont'd (PM)

~~18/5/94~~

Wonnang Estuary floodgate read

— 0.22 m at 1455 hrs

↑ minus

Then headed for Perth.

Arrived

a home at 5-30pm

Next days

- need a gauge plate and ~~staples~~ bolts for Swan Lake.
- down-load data from loggers.
- check for location of Swan nesting
- take water samples from the estuaries east from Swan Lake.

HARVEY ESTUARY Fri 3/6/94

(27)

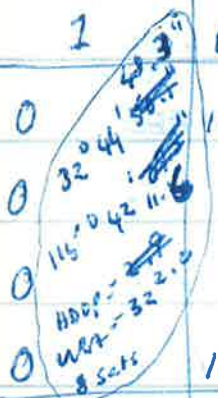
Left Blaken at 0745 hr with Grant +
F350 + 12' pump + 15' hp outboard

Island Pt — ^{Marine + Herbaceous} a gage on SE side
reads +0.08 m AND at 0939 hr.

Station Nos + positions are same as those of previous survey.

HARVEY ESTUARY

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
1	1007	0.2 (top)	12.8	3.7 - 4.4
1	1016	0.3 (bottom)	13.8	3.7 - 4.4
0	1028	0.2 (top)	12.8	6.7
0		0.4	14.0	22.1
0		0.6	14.5	24.0
0	1035	0.8 (bottom)	15.1	26.8



⊙ is approx 300 m N of island

Took photos of N side of Island 1056 hr.

Flow is N even fast at 1059 hr.

(28)

HARVEY ESTUARY

3/6/84 contd

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
2	1103	0.2 (top)	12.7	2.4
2	}	0.4	13.3	12.7
2		0.6 (bottom)	14.0	15.6
3	1110	0.2	12.7	1.2
3	}	0.4	13.3	11.0
3		0.6	14.2	15.0 v
3		0.8	15.3	23.2
3		1.0	23.2	15.3
3		1.2	15.6	26.4
3	}	1.4 (bottom)	26.4	26.7
3		1.2 (bottom)	15.6	26.7
4	1118	0.2 (top)	13.0	1.7
4	}	0.4	13.3	8.4
4		0.6	14.3	13.6
4		0.8	15.5	22.7
4		1.0	15.7	25.4
4		1.2	15.9	27.0
4	1121	1.4 (bottom)	15.9	27.0

Note that "v" indicates salinity variable

ESTIMACY &
HARVEY A REIDER

3/6/94 cont'd (29)

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
5	1125	0.2 (top)	13.0	1.7
5	}	0.4	13.8	10.4
5		0.6	14.6	12.7
5		0.8	20.7	15.6
5		1.0	23.2	15.7
5	1128	1.2 (bottom)	26.5	16.0
6	1132	0.2 (top)	13.5	1.7
6	}	0.4	13.4	7.4 v
6		0.6 (bottom)	14.6 v	12.0
7	1138	0.2 (top)	14.6	0.6
7	}	0.4	13.9	8.5
7		0.6 (bottom)	15.6	16.0
1143 hrs - c 250-300 birds resting (some feeding) in shallow water at tip of dike				
8	1157	0.2 (top)	13.1	0.5
↓	↓	0.4	13.1 13.1	0.5

Concrete block?

(30)

HARVEY REVER

3/6/84 Cold

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
8	1205	0.6	13.1	0.5
8		0.8	13.1	0.5
8		1.0	13.1	0.5
8		1.2	13.1	0.5
8		1.4	13.1	0.5
		1.6 (bottom)	13.1	0.5
9	1215	0.2	13.1	0.5
9	1216	0.4	13.1	0.5
		0.6		
		0.8		
9	1216	1.0 (bottom)		
10	1219	0.2 (top)	13.1	0.5
10	1220	0.4	13.1	0.5
		0.6		
		0.8 (bottom)		
12	1239	0.2 (top)	13.1	0.5
12	1240	1.3 (bottom)	13.1	0.5
14	1245	0.2 (top)	13.1	0.5
14	1246	1.6 (bottom)	13.1	0.5
15	1252	0.2 (top)	13.1	0.5
15	1253	1.7 (b)	13.1	0.5
16	1257	0.2 (top)	13.1	0.5
16	1258	0.9 (bottom)	13.1	0.5

HARVEY RIVER

3/6/84 Contd.

(31)

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
17	1303	0.2 (top)	13.0	0.5
17	1304	1.7 (bottom)	13.0	0.5
17	1308	0.2 (top)	13.0	0.5
17.5	1310	1.8 (bottom)	13.0	0.5
18	1312	0.2	13.0	0.5
18	1313	1.6 (bottom)	13.0	0.5
19	1316	0.2 (top)	13.0	0.5
19		2.0 (bottom)	13.0	0.5
19	1318	2.6	13.0	0.5
19	bottom depth was > 2.6 m			
20	1326	0.2 (top)	13.0	0.5
20	1327	1.0 (bottom)	13.0	0.5
21	1328	0.2	13.0	0.5
21	1330	2.4	13.0	0.5
bottom depth was :				
22	1341	0.2 (top)	13.0	0.5
22	1342	1.6 (bottom)	13.0	0.5

(32)

HARVEY RIVER + HARVEY ESTUARY 3/6/94 ^{Cont'd}

Station	Time	Depth (m)	Temp (°C)	Sed (ppt)
23	1344	0.2	13.0	0.5
23	1345	2.2 (bottom)	13.0	0.5
24	1349	0.2	12.8	0.5
24	¹³⁵⁰ 1349	1.5 (bottom)	12.8	0.5

Fluvial line on bank at station 24
indicated (measured opposite) that
river had recently been 1.35 m higher
higher than now (1355 hrs.)

Station A-V in Harvey Estuary - see map

A	1428	0.2	14.7	2.4
A	↓	0.25 is bottom		
B	1435	0.2	15.4	0.7
B	↓	0.4	14.5	0.9
B	↓	0.6	15.6	18.6
B	1437	0.8	16.4	25.0

HARVEY ESTIMATES

3/6/94 Contd

(33)

Sta

Need
distances
for these
stations
3/6/94

Set (ppt)

0.7

3.5 ✓

14.7

D	1447	0.2	15.6	0.7
D		0.4	14.6	11.0
D		0.6	15.6	14.9
D	1451	0.7 (bottom)	16.1	12.0 c 23 ✓ - c 19
E	1455	0.2	16.0	1.8
		0.4	14.6	10.8
		0.6	15.6	16.2
E	1457	0.8 (bottom)	16.0	21.5-22.5 ✓
F	1501	0.2	16.0	1.9
		0.4	14.6	11.2
		0.6	15.5	15.1
F	1503	0.8 (bottom)	15.9	23.5 ✓

HARVEY ESTUARY

3/6/94 Contd

(33)

Station	Time	Dpth (m)	Temp (°C)	Sal (ppt)
C	1441	0.2	15.5	0.7
C		0.4	14.6	3.5 v
C		0.6 is the bottom		
C	1444	0.5 (bottom)	15.7	14.7
D	1447	0.2	15.6	0.7
D		0.4	14.6	11.0
D		0.6	15.6	14.9
D	1451	0.7 (bottom)	16.1	23.5 v - 0.19
E	1455	0.2	16.0	1.8
E		0.4	14.6	10.8
E		0.6	15.6	16.2
E	1457	0.8 (bottom)	16.0	21.5-22.5 v
F	1501	0.2	16.0	1.9
F		0.4	14.6	11.2
F		0.6	15.5	15.1
F	1503	0.8 (bottom)	15.9	23.5 v

34 HARVEY ESTUARY

3/6/84 cont'd

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
G	1507	0.2	15.7 15.7	2.0 v
		0.4	14.4	11.7
		0.6	15.3	16.5
		0.8	15.6	25.3
		1.0	15.7	26.6
G	1512	1.1 (bottom)	15.7	26.5
H	1516	0.2	15.5	27 v
		0.4	14.4	11.8
		0.6	15.0	19.8
H	1519	0.8 (bottom)	15.7	24.8
I	1523	0.2	14.8	6.4
		0.4	14.3	13.7
		0.6 (bottom)	14.7	21.1 v
I	1527	0.7 (bottom)	14.7	22.4
J	1537	0.2	16.3	7.7
J	1539	0.4 (bottom)	15.4	24.2 v

Note - flow was still ~~still~~ Northwards over the bar at 1530 hr

HARVEY ESTUARY 3/6/94 cont'd

(35)

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
K	1542	0.2	15.5	9.0 ppt
		0.4	15.2	23.2
		0.6	15.2	26.4
K	1544	0.8	15.9	29.1
L	1547	0.2	15.0	12.3
		0.4	15.2	23.2
		0.6	14.8	27.0
		0.8	15.6	28.7
L	1550	1.0 (bottom)	16.2	31.9
M	1552	0.2	15.5	13.9
		0.4	15.7	23.0 ✓
		0.6 (bottom)	15.5	27.2 21.0
N	1557	0.2	16.1	15.1
		0.4	16.1	22.5
N	1559	0.6	16.1	28.7 ✓

(36) HARVEY ESTIMARY — 3/6/84

Station	Time	Depth (m)	Temp (°C)	Sal (ppt)
O	1609	0.2	14.6	12.2
O	1610	0.4 (bottom)	14.6	12.3
P	1622	0.2 0.2	14.8	11.5
↓	1624	0.4 (bottom)	15.3	16.5
P	1625	0.5 Δ	15.5	18.7
Q	1628	0.2	14.4	12.2 9.5
↓		0.4	14.6	12.2 v
↓		0.6	15.4	20.1
Q	1631	0.8 (bottom)	16.0	25.6
R	1635	0.2	14.8	5.3
↓		0.4	14.8	6.3 v
↓		0.6	15.4	16.4 v
↓		0.8	16.0	24.0
R	1637	0.9 (bottom)	16.2	25.8.
S	1641	0.2	15.4	1.5
↓		0.4	15.4	1.5
↓		0.6	14.8	c3 v

Note: fins was still underway over ford at 1615 hrs

HARVEY ESMARCY

— 3/6/94

(37)

Sta	Time	Depth (m)	Temp (°C)	Sal (ppt)
S	1645	0.8	16.0	21.5 ^{c 21.5 v}
T	1648	1.0 0.2	14.2	1.0
}	1651	0.4	13.9	1.0
		0.6	14.8	1.5-5.0 v
		(bottom)		
u	1655	0.2	14.6	0.8
}	1657	0.4	14.6	0.8
		0.6	15.0	c 2-6 v
v	1700	0.2	15.3	0.6
v	1701	(bottom) 0.4	15.3	0.7

Mermi + Harbours gauge board on SE side of
Island Point need:
— 0.06 m AHD at 1739 L.

Next Trip

- bucket
- standards
- tape + no. plates for stations (+ stakes)
- depth measurer
- concrete block for salinity probe.

(38)

HARVEY ESTUARY & RIVER

3/6/94

NOTES:

- The salinity measurements at many stations and depths were very variable due to mixing of waters of different salinities.
- It was absolutely flat glassy calm with zero wind all morning. ~~In~~ In the afternoon ~~it~~ there was a very light wind from the north (1-3 knots).
- It was a cold, mainly overcast day - the max temperature in Perth was approx 15°C .
- Professional fisherman/men were ~~to~~ active south of the Barron Pt ford all day - down as far as the beach with the tip of the dottle - on the west side.
- Ducks ~~are~~ have left the Harvey River since 2 weeks ago - no doubt due to heavy rain. Some coot and a few PeBB and Teal left on the river.

HARVEY ESTUARY + RIVER

3/6/84

(39)

— We weren't taking much notice of birds but recorded.

	Estuary	River
Pelican	✓	
Coot		✓
Black Duck	✓	✓
Grey Teal	✓	
Pink-eared Duck	✓	
Muskrat Duck	✓	
Crested Grebe	✓	
Swamp Hen		✓
Whistling Kite	✓	
Yb Spoonbill	✓	
Egret	✓	
Avocet	✓	

This list is not exhaustive — only those I can
 recollect. Raptors were definitely less abundant
 along river (+ estuary) than on May 84 visit —
 presumably because the large (thousands) congregation
 of ducks had left.

(40)

TO VASSE-WONKUP

Thurs 9 June 94

Court picked me up from home
at 0815 hrs. Drove to Basselton in
Pajero.

Telephoned from Dumbury at 1015 hrs to find out
recording frequency etc of WATA Wadate logger on Vase + Vasey
|| Kevin Firth (Lynette Roelands)

Wadate

logs every 5 min intervals - for streams
normally

Some people may set it up to 30 min

Mini data - scans every 12 seconds
then averages every 10 sec
3 scans before the 5 min

Data files (Wadate)

.dat + .cal → .prm ~~the~~ file

.prm → hydroys

9/6/84 Contd

Vase - Wonnep

(41)

1115 hrs - driving W along coast gravel road from
Waller's place to first bend.

1 Pelican - alternately flapping (4-5 beats)

4 gliding - for 1 km -
at 70 km/h - tailwind ~~about~~ 10-15 km/h

↑ suitable for short note to WA Bird Notes.

Wonnep Estuary floodgate gauge record:
— 0.13 m AHD at 1123 hrs (ie. ^{tape measured} minus 0.13m tides)

- WATA lagoon still on floodgates
- All boards still in (unlike Vase floodgates)
- Water level higher on ocean side

1140 hrs
Insect net open - water flowing out (due
to tide) but not very strongly. Ocean waves running in
a short distance.
~~- 1.50~~
~~+ 0.23~~

Vase Estuary floodgate gauge record +0.23 m
(^{tape measured}) at 1210 hrs. Water level higher
on ocean side. All boards appear to be out.

Water looking in just floodgates. Still most flycatchers

(242)

9/6/84 Lond

Vasse - Wmewang

chocked open (deliberate?) on one
side + ^{sea} water flowing in.

After meeting Mike Beauford, Grant and I spent afternoon
collecting water samples for salinity testing.

① 2.06 pm - Vase Estuary - c. 0.8 km E of Fort Rd.

Grant & I walked in to get water sample

- 1 Whit phospor from stations beyond

of estuary by no gateway, ^{100m} It flew away
at a distance of 40m.

- 3 Swans phospor (they flew 500m to
east & settled) at a distance of 150m
from Grant (other side of estuary) when
Grant reached where Whit had been

- 1 gull phospor from Helwan at
peak distance of 6m

- another gull
- - - of 17m.

9/6/94 Contd.

Vase - Wrens

43

TO DO

- ① Mike to buy Kingbirds + CAH to refund
- ② We look into distance measuring equipment for distance trials (range finder)
- ③ Shorebird nest dates - orange stakes / gear / people for sweep (any other notes)
- ④ Image ~~interview~~ (interview) - borrow

Mike's next trip is early August.

- ⑤ Anemometer.

— a therm gauge also at 6m.

2.20 pm
— driving in to Vase from north we flushed 80-100 mixed RBD, Spar + few Skel from north end of small "island" of estuary as we reached 100-120 m from them. They all flew off in E direction to the estuary.
(8 young Sparrow feeding on surface remained when

Th 9 June 94 cont'd

Vassar-Homestead

(44)

vehicle got to 50 m from stem. I
walked to within 20 m of stream &
it flew away 30 m. The others
swam off to maintain distance of
approx 60 m but kept feeding.
Great collected red chromonoid slat
was swimming just under surface of water.
This arm of estuary had water to
full Nth extent.

- 3 Slat flushed from com at 100 m
(from vehicle) - 2:34 pm
- got to within 30 m of sweet pond
& they just ^{slowly} swam away still feeding
furiously or ~~by~~
- Brown filon over pasture.

Th 9/6/84 contd

Vessel - Wonnasup

(45)

from son of Estuary on west side of
truck in.
- flushed 2 Black Duck at great distance
of 50 m from vehicle.

- 2.50 pm we took water ⁽²⁾ sample from
N side of estuary opposite V&A colony.

- 3.02 pm - took water ⁽³⁾ sample at end
of Estuary View Drive (Wonnasup T. site)

- 3.15 pm - took water ⁽⁴⁾ sample from Wonnasup Estuary
at closest point to Legner's bed.

3.38 pm CACT gauge at E end of
Wonnasup Estuary reads 0.08 m. — took
water ⁽⁵⁾ sample.

Start 10/6/84: Mike Binford, Grant & I had
stayed at Explorers Hotel overnight. Left at approx
7.30 am.

(from E to W)

Mike and I walked the Port George

(46) For 10/6/94 Watched — Vorse-Wannup

development line (recently steepened) and recorded flushing distances of waterbirds encountered. See Mike's notebook for all data. Later, Mike, Grant and I tested flushing distances of birds on N side of Wannup Estuary.

Wannup Estuary eastern (CAW) gauge reads +0.01 m at 1129 am

— c 12-15 knot N wind slowing water away from gauge.

Vorse Estuary floodgate at 1326 hrs reads +0.22 m AHD. Water

level higher on ocean side — leaking in. Smart flapvalve no longer choked partly open.

Wannup floodgate gauge at 1331 hrs reads: — 0.16 m AHD (ie minus 0.16 m)

All birds still in. Very little leakage in first flapvalves despite

End of
Fri 10/6/94

(47)

high water level on ocean side

Joent & I then drove to Mendocino & saw
Humboldt City (Crescent Waterfalls) development proposal
before driving back to city. Arrived
at Cobles Cove approx 4:45 pm.

(48)

Thurs 16/6/94

Harvey Estuary

Island Pt ~~the~~ gauge read

+ 0.08 m at 8.57 am

"Staurolite" : 35.33

"442 soln" : 2.50 ppt.

Station	Time	Depth	Sal	Temp
0	0935	0.2m (top)	20.6	15.0
	0935	0.4	22.7	15.4
		0.6	24.5	15.1
		0.8	25.4	15.2
		1.0	25.8	15.3
✓	0938	1.2 (bottom)	25.9	15.4
1	0942	0.2	22.0 21.5 24.0 -24.0	15.8
		0.3 (bottom)	24.0	15.8
		0.1 (top)	20.8	15.2

16/6/94 cont'd

Henry Estuary

(49)

Station	Time	Depth	Sal	Temp
2 ↓	9.55	0.2	6.7 6.7	11.6
		0.1 top	3.3	11.7
		0.4	9.0	12.5
		0.6	18.8	14.5
		0.8	20.2	15.2
	0958	0.85	20.6	15.6
		RA		
3 ↓	1003	0.2	10.5 10.5	12.8 12.8
		0.4	11.9	12.9
		0.6	14.0	13.5
		0.8	20.5	14.6
		1.0	20.9	15.0
		1.2	22.0	15.7
		1.3	22.6	15.8
	1007	0.1	7.5 v	12.4
4 ↓	1012	0.2	11.0 v	13.5
		0.4	12.8	13.9

(50)

16/6/94 Contd

Harvey Estuary

Stn	Time	Depth	Sel	Temp
4	1017	0.6	18.8	14.9
		0.8	20.4	15.2
		1.0	20.9	15.3
		1.2	22.5	15.8
		1.4 (bottom)	24.1	15.7
		0.1 (top)	10.8	13.5
5	1021	0.20	11.5	13.6
		0.40	15.4	14.7
		0.60	18.7	15.0
		0.8	20.5	15.7
		1.0	21.9	15.4
		1.2	22.1	15.6
		1.3	22.9 (bottom)	15.7
5	1026	0.1 (top)	6.0-8.0	13.8
6	1031	0.2	13.5	14.7
		0.4	17.2	15.4

16/6/94 *work*

Henry Estuary
+ River

(51)

Sta	Time	Depth	Sal	Temp
6		0.6	19.7	15.2
		0.8 (bottom)	20.5 21.7	15.5
		0.1 (top)	10.0	14.5
7	1039	0.2	14.6	15.4
		0.4	17.3	15.7
		0.6	20.3	16.0
		0.65 (bottom)	20.5	16.1
		0.1 (top)	12.0	14.9
"7.5"	1045	0.2	16.1	16.1
120 m from river		0.4	18.5	16.2
		0.5 (bottom)	19.8	16.4
		0.1 (top)	9.0 v	15.5
0 Km	1106	0.1	1.0	13.4
		0.2	1.4	13.4
		0.4	2.2 2.2	14.4

(52)

16/6/84 Contd

Harvey River

Stn	Time	Depth	Sal	Temp
0 km	1109	0.5 m (horiz)	13.8	14.8
Stn 7.5	1113	0.1 hyp	0.9	13.8
		0.2	0.9	13.2 v
		0.4	1.1	13.3 v
		0.6	14.5'	15.2
		0.8	15.5'	15.3
		1.0	15.9	15.4
		1.2	16.0	15.5'
		1.4	16.1	15.6
	1117	1.6	16.3	15.6
Stn 8	1120	0.1	0.8	14.4 14.4 v
Old		0.2	0.8	13.4 v
		0.4	0.8	13.0
		0.6	0.8	13.0
		0.8	0.8	13.0
		1.0	5.3	13.5'
		1.2	12.2	14.4

16/6/94 middle Hervey River

53

Stn	Time	Depth	Sal	Temp
Stn 8.	1124	1.3 1.2 (bottom)	13.5	14.5
0.5 km	1134	0.1	0.8	14.9
		0.2	0.8	14.7
		0.4	0.8	13.2
		0.6	0.8	13.1
		0.8	0.8	13.1
		1.0 (bottom)	0.8	13.1
Stn 9 old ↗	1138	0.2 0.2	0.8	13.4
		0.4	0.8	13.1
		0.6	0.8	13.1
		0.8 bottom	0.8	13.0
1.0 km (= Stn 10)	1149	0.2 0.2	0.8	13.9
		0.4	0.8	13.1
		0.6	0.8	13.0
		0.8 (bottom)	0.8	13.0
Stn 11 old ↗	1154	0.2 0.2	0.8	13.0
		0.4		12.9

(54)

16/6/94 cont'd

Harvey River

Sta	Time	Depth	Sal	Temp
Sta 11		0.6	0.8	12.8
↓ out	1155	0.8 (bottle)	0.8	12.8
1.5 km	1200	0.2	0.8	13.0 v
(= Sta 12)		0.4	0.8	12.9
↓		0.6	0.8	12.8
		0.8	0.8	12.7
	1202	1.0	0.8	12.7
Old Sta 13	1206	0.2	0.8	12.8
↓		0.4	0.8	12.7
		0.6	0.8	12.7
		0.8	0.8	12.7
		1.0	0.8	12.7
	1208	1.2 (bottle)	0.8	12.7
2.0 km	1214	0.2	0.8	12.8
		↓	↓	
		1.1	0.8	12.7
Sta 14	1217	0.2	0.8	12.7
Old ↑		↓	↓	
	1218	1.5	0.8	12.5

16/6/94 contd

Harrow River

55

Stn	Time	Depth	Sal	Temp
2.5 km	1223	0.2	0.8	12.2
(old = stn 15) n	1224	↓ 0.7	↓ 0.8	12.2
3.0 km	1229	0.2	0.8	11.9
(= stn 16) old	1230	↓ 0.6	↓ 0.8	11.9
3.5 km	1237	0.2	0.8	11.6
(= stn 17) old	1237	↓ 1.6	↓ 0.8	11.6
old stn 18	1241	0.2	0.8	11.8
	1241	↓ 1.0	↓ 0.8	11.8
4.0 km	1246	0.2	0.8	12.1
	1247	↓ 1.4	↓ 0.8	12.1
old stn 19		0.2	0.8	12.3
		↓ 2.4	↓ 0.8	12.2

(56)

16/6/94 Contd

Hervey River

Stn	Time	Depth	Sal	Temp
4.5 km	1257	0.2	0.75'	12.5
		↓	↓	
	1257	1.3	0.75'	12.5
Old Stn 20	1300	0.2	0.75'	12.6
		↓	↓	
	1300	1.4	0.75'	12.6
5.0 km	1308	0.2	0.7	12.8
		↓	↓	
	1309	1.1	0.7	12.8
Old Stn 21	1311	0.2	0.7	12.9
		↓	↓	13.0
	1312	1.0	0.7	12.8
5.5 km	1319	0.2	0.7	13.1
		↓	↓	
	1320	3.1	0.7	13.1
Old Stn 22		0.2	0.7	13.4
		↓	↓	13.3
	1323	1.2	0.7	13.3

16/6/84

Contd.

Henry River

(57)

Sta

Time

Depth

Seal

Temp

6.0

16/6/84

(old
= sta.
1)Need
distances
for these
stations

6.5

2

1343

0.4

0.7

14.2

Old
Sta 24

1347

0.2

0.7

14.5

↓

↓

1348

0.8

0.7

14.4

7.0 km

1359

0.2

0.7

14.6

↓

↓

1400

1.6

0.7

14.6

7.5 km

1409

0.2

0.7

14.5

↓

↓

1410

0.5

0.7

14.5

8.0 km

16/6/84

Contol.

Henry River

(57)

Stn	Time	Depth	Sal	Temp
6.0 km	1330	0.2	0.7	13.8
(old = Stn 23) ↑		↓	↓	
	1332	1.5	0.7	13.8
6.5 km	1341	0.2	0.7	14.2
		↓	↓	↓
	1343	0.4	0.7	14.2
old Stn 24	1347	0.2	0.7	14.5
		↓	↓	
	1348	0.8	0.7	14.4
7.0 km	1359	0.2	0.7	14.6
		↓	↓	
	1400	1.6	0.7	14.6
7.5 km	1409	0.2	0.7	14.5
		↓	↓	
	1410	0.5	0.7	14.5
8.0 km				

(58)

16/6/84 contd

Henry River

Station	Time	Depth	Sal	Temp
8.0 km		0.2	0.7	14.4
		↓	↓	
		0.2	0.7	14.4
Bridge	1431	0.2	0.7	14.2
		↓	↓	≠
	1432	0.6	0.7	14.2
200 m sth of Island Pt	1531	0.1 (top)	12.4	14.0-15.0 ✓
		0.2	12.7	13.3
	1533	0.4 (bottom)	17.4 18.4	15.2

Gauge sth of Island Pt

reads: + 0.14 m at 1542 hr

Tues 5 July 84

(59)

left home 0710 hrs

Island Pt gauge at 0840 hrs reads +0.39 m.

Recalibrated on ^{35.3} ppt and this
gave a reading of 2.4 ppt for the 3 ppt
standard.

220 m from island
72 m from island

Station	Time	Depth	Sal	Temp.
1	0926	0.2 m (top)	3.2	16.3
1	0928	0.6 (bottom)	3.2	16.3
0.4	0944	0.2	3.4	16.1
		1.4	3.4	16.0
		1.6	6.6 v	16.4
0	0946	1.8 (bottom)	7.8	16.4

(60)

5/7/94 Condit

Itany Estuary

Stn	Time	Depth	Sal	Temp
2	1000	0.2	2.1	16.2
}		0.4	2.1	16.2
		0.6	2.1	16.2
2	1001	0.8	2.3	16.2
3	1005	0.2	1.6	16.1
}				
3	1010	1.6	1.6	16.1
		1.2	1.7	16.1
4	1015	0.2	0.8	16.3
}				
		1.2	0.8	16.3
		1.4	1.4 v	16.5
4	1017	1.6	1.7	16.5
5	1022	0.2	0.8	16.6
}				
5	1023	1.4	0.8	16.6

Harvey Estuary + River 5 JULY 84 Contd.

(61)

Station	Time	Depth	Sal	Temp
6	1028	0.2	1.0	16.6
↓	↓	↓	↓	↓
6	1029	1.0	1.0	16.6
7	1033	0.2	1.0	16.6
↓	↓	↓	↓	↓
7	1034	0.2	1.0	16.6
0 km	1040	0.2	0.6	16.6
↓	↓	↓	↓	↓
	1042	1.0	0.6	16.6
0.5 km	1045	0.2	0.6	16.5
↓	↓	↓	↓	↓
	1046	1.3	0.6	16.5
1.0 km	1051	0.2	0.6	16.4
↓	↓	↓	↓	↓
	1052	1.1	0.6	16.4
1.5 km	1055	0.2	0.6	16.3
↓	↓	↓	↓	↓
	1056	1.5	0.6	16.3

(62)

Harvey River

5/7/86 Cont'd

Station	Time	Depth	Sal	Temp
2.0 km	1058	0.2	0.6	16.3
	↓	↓	↓	↓
	1101	1.6	0.6	16.3
2.5 km	1112	0.2	0.6	16.2
	↓	↓	↓	↓
	1114	1.1	0.6	16.2
3.0 km	1116	0.2	0.6	16.2
	↓	↓	↓	↓
	1117	1.4	0.6	16.2
3.5 km	1120	0.2	0.6	16.2
	↓	↓	↓	↓
	1122	2.4	0.6	16.2
4.0	1124	0.2	0.6	16.2
	↓	↓	↓	↓
	1125	2.1	0.6	16.2
4.5	1129	0.2	0.5	16.2
	↓	↓	↓	↓
	1130	1.4	0.5	16.2
5.0 km	1133	0.2	0.5	16.2
	↓	↓	↓	↓
	1136	2.5	0.5	16.2
5.5 km	1139	0.2	0.5	16.2
	↓	↓	↓	↓
	1142	3.4	0.5	16.2

Henry River

5/17/94 Cont'd

(63)

Sta	Time	Depth	Sal	Temp
6.0	1145	0.2	0.6	16.2
		↓	↓	↓
	1146	2.4	0.6	16.2

END -

200 m SW of

Island Pt

1244	0.2 (top)	1.0	17.0
	↓		
	0.4	1.0	17.0
	↓		
	0.6	1.0	16.7
1246	0.8 (bottom)	1.0	16.7

Reference against standards

3 ppt standard read : 2.45

35.3 ppt " " : 35.3

Depth gauge on SW side of ~~Island~~ Island Pt reads 0.40 m at 1310 hrs

Henry River

5/27/94 Cont'd

(63)

Sta	Time	Depth	Sal	Temp
6.0	1145	0.2	0.6	16.2
		↓	↓	↓
	1146	2.4	0.6	16.2

END

200 m SW of

Island Pt

1244	0.2 (top)	1.0	17.0
	↓		
	0.4	1.0	17.0
	↓		
	0.6	1.0	16.7
	↓		
1246	0.8 (bottom)	1.0	16.7

Reference against standards

3 ppt standard read: 2.45

35.3 ppt " " : 35.3

Dark gauge on SW side of ~~Island~~ Island Pt reads 0.40 m at 1310 hrs.

(64)

Lake M^cLeary

1.15 m from highest point on top of
~~post~~ post on W side of M. rhizophylla
to water surface - at 135° 8' W.

- took water sample

- Grant has a star packet from
out - from SCP study - he
measured depths off it.

Remains of old wooden elect structure on
outflow drain from lake (S.W. side)
- water level not quite high enough yet to go out
thru this drain.

Lake has flow into it thru break in
levee bank - from boggy land
on E side of lake.

When water level of lake is higher
this water draining - from E end

5 July 94 *Contd.*

(65)

flow past lake and into drain
into Henry Estuary. There is
already a slight trench through
culvert (under road) of this drain
from S. end of the lake - but
the lake itself is not quite yet
draining out than the southernmost drain.

Lake Mearns - 1458 hrs.

- 2.27m from top of wooden post
down to water surface. Took water sample

E end of Robert Bay Drain flowing to
West at 1521 hrs.

Robert Bay Drain - water flowing out
into Estuary at 1527 hrs - Depth gage: 0.85m

(66)

- look water sample

Cowbird Wetland

4.05 pm

Pa JD - 4 pr + 1 pr

1 pr near NW shore (flushed)

LBC - 9

Cont. Quail - 1 + 1 + 1

Sooty Tern

Black Swan - 62 - all feeding in
centre of lagoon

Avocet - 1 #6 (flying) + 1 (flying)

Greenback - 1 seen (flying)

6 July 84 ^{Cont'd}
Tern - (small) ~~around~~ diving (22 fly) (67)

LiGB - heard

Petrel - 1+1

plastic bags + bottles

LPE - 2⁺²⁺¹ fly + landing in lagoon
+ ~~swim~~ + diving

1/2 Spurnbill - 3 feeding along edge (NW)
of lagoon + 13

Labre once

4 Stel, 1 Great Egret, Blackish Skiff 49
Cassowary - 3

Long songbird look

9 BWSH Lark - 1 pr P. BD edge of songbird

3 P. BD overheard

Scrub Tit - 2 feeding with 1/2 Spill

(68)

Mud + sandflat area (extensive) NW
of Green Lagoon

Shelduck - 1 pr

PtBD - 1 pr

Grebe - 1 + 1 + 1

Avocet: 16 (mostly resting) in digested area

Sec I: 1

Little Green-b. Leard

Avocet - 12 more

Greenback - 1

Swan - 1

Black w. Stilt - 12

Pheasants - 4

at 1703 hrs - 4 Avocet + c 15 Black Stilt leaving.

(69)

Fri 8 July 94

Start 0905

Overhanging down into marsh - *Buboboscus*?

PoBD - 1 + 1 pr

Skel - 1 pr + 1 pr + 2 ♀

LPC - 300-4500 fishing in lagoon (gulls + terns)

Great Egret - 1 + 3

Little Egret - 2 flying + ¹⁰ roosting in Casuarina clump + c 40

Small Tern - 1 fishing

Silver Gull -

Little Greenbird - heard

Black shouldered hawk - 1 over marsh

Grey Teal - 1 pr

0916 hrs: + 0.40 m AltD on "Blood marker".

Pelican - 1

many frogs ~~on~~ calling - med. → high "snatch" approx
1/sec.

(70)

Whistling Itike

Yb Sparrowbill - 10

Greenlets. - 10

0950 Fox - first in water deep water, stride in ^(hacking) deep
water - within a few metres of lake edge before
they look off - open and area with shallow water

WFT Hawk

Arrebit - 8 feeding

Wilson's Swallows

yellow rectangular markers (15x15) ?

8 JULY 94 Contd

Dropout Zone c 0955 hrs

Greenish - 12

Skel - 1 pr + 1

Arrest

Little bird - 2⁸ + 1

Great bird - 2

Willie Widge

Little Greenbird

Pipit .

1006 water rising ^{strongly} in to dropout zone (from Estuary)

White f. chat - Pink ~~sk~~ c 25

Wedge Swallow

Tree Martins

Wester end of

at 1040 hrs.

Yb Sbill - 6

Arrest - c 300 ^{c 260 counted} ~~sk~~ skelting/feeding close to tree line

Greenish - 2

Skelchids - 1 pr

(72)

a 100 Wading Stilts + a few Mottled
Little Greenish Lark

PtBd — 1 pr in saltmarsh

Coast Finch — 2 — —

Little Egret — 10 — —

Waterline has been at edge of meadow
for winter $\frac{3}{4}$.

18 pbs + c20 LPC resting on shoreline of
main channel. They all took off + flew
away when I got to 107 metres (paved)
from them. Breeze from NSW, I
approached from ENE. Intensity distance
was water (over marsh) just below knee
deep. — 1050 hrs.

14 pbs came back + swam c 25 metres
from me — but not the LPCs.

8 JULY 94 Contd

(73)

1058 hrs

31 Yb Sbill (left 1 Great Egret
39 behind)

Look off at 122 meters (paced)

I was generally from NNW, wind from WSW

Flooded marsh between us

1106 hrs

2 large Cormorant recently blown over

on shoreline to north of entrance to

Creevy Lagoon (west of Cormorant Island - marsh)

Bank + still ^{recently been} ~~being~~ washed into marsh.



GREAT PHOTOS

c 90 small terns feeding - marsh at N end
of Channel Island -

Crossed entrance to Creevy Lagoon

46 Black Swan stalking in wetland -

also "lake" of Creevy I. also 10 Pbs.
marsh island in this.

(74)

1135 hrs - reached trees of Coney I

1 pr PABD in marsh like

1 Willie Wagtail on reynolds

Little Gulls were very conspicuous

flying over bushes on W side of Coney I.

Saw up to 4 at a time.

1 Whistly Lark over W shore

1st Siskin in nest

1 Corvid in nest

1144 hrs - 2 Cormorants newly blown over near
CASM sign (which may wash out soon)

1 Great Egret flushed at distance of ~~1115~~ 1115 m
(paced) - we approaching across land + marsh,
from upwind.

1155 hrs - 4 magpies in Cormorant

one flushed 1 pr PABD from marsh/land edge.

8 July 94 Looe

(75)

1159 hrs - 1 darker ^{high} fly over nest.

1207 hrs - c 250 small ~~birds~~ terns still
feeding on outermost (northern) limit
of marshes of Coney I.

- c 50 ~~Red-capped Parrots~~ Bu Shit in this area

also - ~~too deep for them to walk~~
resting and wading on top of flooded Scleria

1225 - strange offspring - echidna?

1231 - Flock of c 30 Scaup up
from marsh border to Coney I.

- 1 Sooty Tern

- 4⁵ Red-capped Parrots in Coney I.

- 1 Black-s. Lark

- 1 Grey Fantail

2 White Wyand.

(76)

Very conspicuous but then goes — fox?

Crossed channel (lowest deep) at

1245 hrs.

Depth gauge

read

0.44 m AHD

at 1247 hrs.

5' yr.

(Bob Kite is o/c)

Beard Tarsus

2 3/4 yrs

John on Ashley Watts 097 391 065
near Colchester.

2 professional fishermen —

6-8 by moon — ~~once~~ or 2 at

beginning — ~~January 8th~~ last set of the

new gear to end of Feb.

On a major bank — prob. Dungeness Pool

(v. big tree with eggless nest on inside bank
of — scrapes to moon).

Traps out of season — that even show
— landholder.

(77)

Does summer pellets in 12¹/₂ pint
in summer - late Nov → March
c once every 3 weeks - may go up
to 6 k is up. Sometimes drive along
E side from bridge.

Not big enough for maver pellet.

