

Jim Lane's Field Notebooks Index Contd.

(Revised Index of 31/5/2014)

<u>PDF Name</u>	<u>Book Label</u>	<u>Approx. Span of Dates</u>
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)
JL_(1992 on)_27	27	(14 -02-98 / 21-03-98)
JL_(1992 on)_28	28	(30-03-98 / 20-05-98)
JL_(1992 on)_29	29	(23-05-98 / 28-08-98)
JL_(1992 on)_30	30	(Sep 98 / Dec 98)
JL_(1992 on)_31	31	(24-12-98 / 28-01-99)

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JL_(1992 on)_34	34	(25-11-99 / 10-03-2000)
JL_(1992 on)_35	35	(29-03-00 / 04-09-00)
JL_(1992 on)_36	36	(05-09-00 / 19-01-01)
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JL_(1992 on)_38	38	Missing (at 31/5/2014)
JL_(1992 on)_39	39	Missing (at 31/5/2014)
JL_(1992 on)_40	40	(Dec 02 / Mar 03)
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JL_(1992 on)_43	43	(Oct 03 / Nov 03)
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TO BE CONTINUED

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JL_(1970-84)_10	1974-76	(21-12-74 / 25-01-75)
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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)
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JL_(1970-84)_19	1984	(15-03-84 / 16-03-84)
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JL_(1992 on)_1	1	(03-11-92 / 03-08-93)
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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	(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	(15-03-95 / 01-04-95)
JL_(1992 on)_13	13	(02-04-95 / 07-04-95)
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N° 24



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Note Book

96 PAGES

No. 561

Dec 97 → Jan '98

ESSELTE

(1)

Grace Vi Brian Jenkins
Ulrich Keith Rachel Evan

Vasse Estuary - from
access point approx
300m south of mouth
of Abba River.

0730 hrs -

- Pelican - Grey Teal
- Black Swans - White Ibis
- Silver Gulls - Wt Heron
- Great Egret - LBC
- BWSH - LPE
- Shelduck - Great Cormorant
- Black Duck - Whistling
- Osprey - Deep Shinned
- Shorebird

(2)

Vegetation Phragmites
size med + A14 in
HDD at 0845 hrs on
Sat 20/12/97

Cool - some overcast
Moderate WSW wind

Cropped sedges and
some sedge stem brown
green Phragmites
Colour deep olive green

standing 2 m high

Peeling of bark
easily on brownish bark
light brown (leaves) then
the grass

No sign of duck or
any birds

(3)

1 Inm. PC fairly on broken
side (saw it on the
right)

"Kerosene" looks at system
edge of the 2 m wide
of kind of chopped
sedges & a few stems
on the right side of the
gates. This is the
first time I have seen
this.

Bar at mouth still
closed (0854 hrs) it
didn't open last night.

(4)

Vasee Estuary phalaris
at 0630 hrs on Sunday
21 Dec 97

1 Great Cormorant feeding 20 m
downstream from gate.

1 PROD + 3 large Chen II
drakelets under walling of
phalaris. 2 LBC +
1 KPC on the gate.

Also 1 Common Sandpiper

1 SAC I on bank 10 m
upstream of gate.

1 S. GL overhead.

Large black reeds
+ 0.13 m at 0633 hrs.

(5)

1 Caspian Tern ~~flapping~~
flying overhead (up the
channel)

- Very slight bubble of water
out their pectorals

- Many small fish on down
stream (1-2 cm) side of
gates

- larger (15 cm?) fish
flapping out of the water
30-120 m downstream from
the gates (barned
at 7 flaps out of water
in 1 minute — more
fish activity at surface)

(6)

- no fresh insects on upstream side of gates + no signs of fresh activity
- no dead, dying, sick etc fresh signature.
- Water upstream of gates is still a deep olive green colour.
- No wind - fine.
- some chopped & seagrass against the gates (upstream)
- small "clumps" of fresh on upstream side of gates are green. - little or no other algal swimming.

(7)

- Water on downstream side
is a clearer olive green
($\frac{2}{3}$ can see further
into the water)

Seed: depth (abt on up-
stream side)

position	depth	time
gate 4		c 0648 hrs
gate 7-8		
gate 11		0652 hrs

(8)

Deer bar at mouth of Worsley
Inlet is closed at

0658 hrs.

1st high tide
last night came within
approx. 10 cm of
overlapping the bar.

Water on beach is small
(approx 15 cm).

— water quality = Inlet
looks "OK".

0706 hrs on Sun 21/12/97

— called in to Enderby View

Advice — No islands exposed

but some are being stored

on e.g. by Sec I end

Shellmuck.

Mon 22 Dec 97

0645 hrs.

Flume estuary flungate
gauge reads +0.12 m.

- Many small (1-2 cm) pods
on downstream side of gate.
- Slight (very) drizzle of water
out.
- Light SE wind. Fine
- Water colour upstream route
is deep olive green.
- Clipped seagrass from 2m
on upstream side of
flungate.

(10)

- As yesterday the south movement of fish is present.
- some larger fish activity 30 - 100 m downstream of gates (occasional flip out of water).
- No sign of dead on sick fish.
- No fish activity visible on upstream side.

gates 4	47 cm	0654
gates 7-8	50 cm	
gates 11	49 cm	0658

(11)

0710 hr — mouth
of Inlet closed — ~~no~~
~~flow~~ high tide last
night did not reach
top of bar

^{strong}
Womany, ^{strong} floodgate gauge
reads — 0.01 m ~~MSL~~
at 0725 hr

— Slight tide in
past floodgate.

(12)

Vessel taking gauge
reads + 0.11 m ~~2845~~

at 0645 hrs on Tues 23/12/92

gates 4	4.0 cm	0646 hrs
gates 7-8	4.5 cm	
gate 11	4.7 cm	0649

light SE wind. Fine.

Conditions same as yesterday.
though ~~fewer~~ now few (fewer)

(13)

Large first jump
downward of gates

Still a very slight bubble out

Movement (one) of one foot
~~at~~ seen 10 m upstream
of gates — beneath the
surface.

Bar at mouth is closed
(0658 hrs) and high tide
last night did not overtop it.

(14)

Wed 24/12/97

Have eating phytolacca at
0645 hrs. Jage
needs +0.10₅ on.

Time. Hot yesterday
Forecast cooler today
Very light SW wind.

Cut down on myshum side
~~Less~~ is now a deep
"kaddy" brown green.

Amount of clipped sargassum
has been slowly growing.
Common jage area - but
still only 2 m
system of the jage.

Slight bubble of water out.
Many (but not as many as
a few days - direct exp)
small (1-2 cm) fish
on downstream side of
gates.

Suction Depth:		
Position	Depth	Time
gate 3	50 cm 57 cm	c 0650 hr.
gate 7-8	48 cm	
gate 4	50 cm	c 0655 hr.

Occasional flash of fish out
of water 30-100 m downstream

No sign of fish activity
upstream.

(16)

No dead chry and fresh
some (4 ^{7/8}) CPC's left
as I examined
1 PC flying on down town
side.

~~When I went to the~~

First in bloom sign to
est ??

0720hrs.

Worms: I let mouth (sense
bar) is closed but
there was some flow in
over the top at high
tide last night. Width
of flow over was 9 metres
It flowed over at the
point where it flowed over

approx 1 week ago $\frac{1}{2}$
(check earlier notes)

Volume would have been

less than previous onflow.

Overflow last night probably
wouldn't have occurred

but for the lowering ^{of the sea} ~~seawater~~
caused by the previous
onflow. Were

water this morning as approx
25 cm. with this SW wind.

Early New Year (Yesterday)
at 0729 hrs. Islands

were still covered, though
now Silver Gulls are able
to stand "white deeps" in
several of them.

(18)

4.40 pm on 25/12/97
(Xmas Day) - last day
- checked on him.

Right knee from colic

in drain at edge of

Ford Rd (stg) c45 m

south of junction with

Lygon Rd.

- brown plugs with
white spotting.

4.48 pm on 25/12/97
Esting Vase Drive (Vase
Esting) - volants
still covered

Vase Estuary phytoplankton
 Jenga needs + 0.105 m.
 at 4.52 ^{pm} on 25/12/97.

1 imm. PC feeding on downstream
 side of jets. 1 Darter
 feeding 40 m upstream along
 the channel. Also some

(low time) of coot, P.09
 upstream of the jets (10-100m).

1 Great Egret + 1 CPC
 on old railway structure.

	Secchi Depth	
Jets 4	42 cm	4.58 pm
Jets 7-8	47 cm	
Jet 11	45 cm	5.03 pm

(20)

1 Common Scaup on structure

Moderate SW wind blowing.
Frie. Warm-hat.

No sign of dead on edge
pit.

Very slight bubble of water
front of flap.

Light bloom on upshot side is
a dull brown-green
colour.

Same amount of clipped
scaups at gate as yesterday.
- No geal swimming.

Many small (1-2 cm) fish
visible on downstream side

Occasional large fish flapping
out of water 20-50 m downstream
of gate.

Other large fish relatively (scattered)
at surface on N. side of
channel 20 m downstream of gate.

Water is dark grey brown colour
downstream of gate for at
least first 5 metres.

Bar at mouth of Womaji Inlet
is closed (at 5.18 pm). It
looks as though high tide overtopped
the bar last night (but can't
be certain of this).

(22)

If it did the volume of
inflow was small. (smaller or
less than
night before)
Certainly no outflow.

Water ~~shown~~ in Ditch looks "ok"
but this hard to judge.

Wharfedale Estuary flange gate gauge
reads - 0.03 m at

5.29 pm on 25/12/87.

Moderate SW wind blowing.

gates closed. Boats in. ~~the~~
~~water~~ in Very slight
trickle of water in.
No dead on drying fish.

Vase Estuary at Estuary
 New Drive on 26/12/87
 at 0652 hr.

56 tubs exposed -
 all by no more than
 1 cm.

This is the very first time
 these ~~the~~ tubs have been
 exposed this summer.

Yesterday they were all covered.

Standing on the exposed tubs
 are Crabs, Gulls, P. St, LBC
 LBC, Skel.

(24)

Vase E. Long phosphate gauge
reading is $+0.09$ m
at 0721 hrs on 26/12/87.

0710	1.5
	3.5
0710	8.7

Moderate SE wind blowing.
Fine. Forecast $\approx 36^{\circ}$ C today
(in Bombay).

Some 1-3 in "stopping"

of moving along downstream
side of phragmites - first
time I have seen these.

(can't detect any phos at
all this phragmites. Water
a few feet on both sides.

Water colour on my down side is
a deep dull olive green.

There are some

~~(out side)~~ (for first morning) well
fast on downstream side.

Substrate otherwise similar
to previous morning.

(26)

Very occasional flaps of
huges just out of water
15+ m downstream.

1 Darter fish 50 m upstream
of gales. 1 LDC

Left at 0731 hr.

Very occasional swirls by
1 or 2 fish on upstream
side of gales. Can't see
them.

One school of huges fish broke
the surface (occasionally) but
didn't keep out) i.e. 15 m
downstream or I left.

Wormy Tilt north
 at 0740 hr. Ben
 closed. High tide
 definitely didn't overtop
 the bar last night.

Vase Estuary floodgate gauge
 reads +0.10m at 0656 hr.
 0645 hr on Sat 27/12/97.

C30 Eggs (all fresh?)
 ca 100 pellets all fresh

250 in system from floodgate:
 ca 100
 200, Sibbs, Comments, 1 Caspi
 Tern o'head, 1 Duck on post,
 1 PC = water,

(28)

gate 4	43 cm	0651
gates 7-8	48 cm	
gate 11	48 cm	0655

Water is dull brown + green.

Charged Ruppel is some
quantity is grasshopper legs

^{moderate}
Light, SW wind of blowing
(though went there last night?)

Can't see fish on upstream side
but some slight "pattering"
indicating their presence (v. small
fish) in part 2 on upstream.

Wholly Egle also heard
upstream. Dasher and

Cest seen fishing

4. Slight double of water downstream
Shore gates.

Many 1-2 cm fish on
downstream side of gate.

Some shrimp (1-3 cm) also.

No signs of dead or dying fish.

Water seems a little clearer

than before on downstream

side - can see bottom in

most places - brown coloring?

- Note that the Egle & other
large birds are now able

To stand knee deep in
both sides (edges) of the

(30)

checked upstream of the gates.
- Very slight appearance of oil on
surface at upstream side of floodgates.

Downing Inlet mouth -
bar closed. 0728 hrs

came over bar last night.
Washed in only. Width
of flow in was approx
18 in.

Sun 28/12/97

0634 hrs.

There are 35 pelicans
actively fishing in the Vase
estuary in front of
Estuary Head above.

This morning there are
80 (counted) just exposed
islands in the bay in front
of Eschey View Drive.

Verse Eschey floodgates at
0645 hrs gage reads
+ 0.085 on AHD

(continued)
1 min N of them at base of gates
1 cluster of 40 on upstream
1 min PC freely on downstream side of gates.
Many small (1-2 in) fish on
downstream side of gates. Some
small (2-3 in) "springers" on
downstream side of gates at south
end.

(32)

Remnant of chopped regrass
is building up at S end
(upstream side) of gate.

Pond has radius of c 10 m

Also more along length

of gate. Pond extends
out 3 m along length.

Gravel from on upstream
side is now a "killing"
brown colour.

- Light SW wind blowing.
Fine

- Osprey began fish plugging
20-40 m downstream from gate.

- Very slight trouble out from
the plugging.

Can't have such a ridge
on western side of
plateau due to breakings
of layered segments.

— now too thick

Water "hanging" seems
similar to that of
^{recent} ~~fresh~~ days (can't
see far in to it)

No gel seam - v. little
of the froth is gone.

No ice - dead frost.

(34)

25 0702 hrs on 28/12/97
Lowings Inlet north
side but still closed
High tide best night
Went over the top of the
bar. Width of flow
was 16 metres.

Water quality in Inlet looks "OK".

Mon 29/12/97 0637 hrs

Stopped vehicle at Vase
Edge phragmites. Can
see c. 100 pelicans
(counted 47) on the water
between the 1st & 2nd
bends up the channel.
Can also see 18+ Great Egrets
at water edge

Also Little Black Cormorants
 + 4 adults
 LPCs, 26 Eggs + A (large)
 Most Doves, Coot, PeBD,
 1 Darter feeding, 1 YB Symbill,
 1 ScaT, 1 S. Bl., 1 Long Tern
 feeding, 3 Shore Plover ahead,

0646 hr - the pelicans ~~birds~~
 are strong & feeding closer
 to shore than first band.
 Can now count 27 Great Egrets
 along S bank standing in shade
 & feeding. Number of pelicans
 is more like ~~than~~ 150.

The egrets are moving (flying)
 along the edge to large
 clumps of the pelicans. Now
 30 Great Egrets counted.

(36)

At 0657 hrs the party flew
off jets (+ c 50 LBC
and a few LPC) & spent
here moved approx $\frac{1}{3}$ of
way from 1st bend to
the phragmites. Feeding
very actively.

There are 3+ WBT on the
middle shoreline.

0701 hrs - onto the phragmites

Distributed 1 min. Nylt Horn.

Darkly feeding 10 min together.

1 Common Sparrow on the
shoreline.

George near + 0.06 m
at 0703 hrs.

(40)

"Peking" by ~~water~~ shells
of south part also visible
system of the gates.

- Very occasional larger fish
flashing out of water
c. 30 m downstream

- No effect scanning at all
and no "oil" column.

Warning siren went
at 0718 hr. Sea
still closed but test
right at high tide the
sea flowed in to
a width of 11 m.
Could not have been a
large volume.

Water pretty & inlet looks
"OK"

c134 "islands" exposed
(mostly or partly) in base
Eschsch - from looking down
Dive at 0729 hrs on
Mon 29/12/97 -
compare with water level
this morning of 0.06 m MSL

Islands being used by Gygis,
Gulls, ~~BW St~~ BW St, RABD,
LBC, Sheld, SactI, SactI,
LPC, The Gulls + BW St
are feeding on the islands.

(42)

Tues 30/12/92

0708 hrs

View looking through

gully reads $+0.065$

V. light bubble out.

V. light SE wind

Warning Inlet mouth
at 0716 hrs. Bar
closed. High tide

best night flood
into Inlet - width
of flow 10 m.

Wed 31/12/97
 Vase Erythraea
 jugo neck + 0.06 m
 added at 0645 hrs.

Slight drizzle out.

Many small (1-2 cm) fish
 on downstream side

Some shrimp (1-3 cm)
 on downstream side.

Some larger fish actually
 15-50 cm downstream.

Downstream unchanged.

Upstream regions unchanged.

Some (v. little) fish

on upstream side. Some
 (not all) of them is greenish.

(44)

No signs of nests, dead or
struggling fish

1 Darker ~~plages~~ ^{regions} of
plouflets.

1 Imm. Nig. Hem. under plouflets.

Wanap Inlet mouth at

0655 hrs. Den is

closed. High tide looks

right placed over top of
bar to a width of 12m.

No outflow

Water gradually - Inlet is "on"

Thurs 1/1/1998

Arrive at base. Ebbings photographs
at 0922 hrs.

2 Common Sandpipers.

Large reeds $+0.04$ m
at 0924 hrs. Light 5

Large blowing. Fine,
partly overcast.

Very slight drizzle out.

Less clipped Puffins than

previous days.

Bloom on upland side
unchanged

(46)

Many small (1-2 cm)

fish on downstream side

(condensed by much
"pattering" at the surface)

Some larger fish activity

10 - 30 m downstream.

(swimming & occasional flipping
out of water).

Can't see shrimp but may
just be the light.

No fish activity

Black "pattering" & stopped

Swamp on upstream side is
by animals (water beetles?).

Coming to surface very
briefly (or I see?).

(47)

There is now a thick
bright green sedge of algae
0.5 m wide along shore
on N side of Phryganea
and $\frac{1}{2}$ way around this
little bay (cc 20m)
It is ~~at~~ ^{at} edge of
the mass of
decaying algal regions.
It is not secure. I
haven't seen it here before

~~0948~~ 0948 hrs. Low tide
Tide mark - bar still
closed. High tide
has ~~right~~ almost ~~found~~
over all tops of the bar.
- no flow either way
(level of water in Tides)

(48)

is well below that of the
bar. ~~sample~~

Water quality looks "ok"
but is increasingly "mucky".

Verne entering floodgates
at 0648 hrs on Fri
2/1/98.

Gate needs +0.06m
MID.

Open.	Depth	Time
gate 4	47 cm	0652
7-8	47 cm	
gate 11	41 cm	0656

Light bloom on yellow side
 challenged — it's a
 dull ~~brown~~ slightly greenish
 brown colour.

- Fine light SE wind.
- Chopped seaweed has largely
 detached, away from
 phragmites and, is now in
 (west side of jetty)
 bag on N side of jetty.
- Many small (2-3cm) fish
 on timber side of jetty.
- slight bubble out
- some small shrimp on
 downriver side.
- 1 Comm. Sandpiper, 1 Darter
 & LPC & phragmites.
- Bright green light bloom in
 bag on N side is as

(50)

geekily.

No sign of fish on eastern
side of gate - except
for one ² fish that flung
out of water as I moved.

- Obviously, there is ^{very little} large
fish activity downstream of
florids (just saw one flip)

and small fish activity near
surface 30 m upstream

Waning Tidal month at
0709 hrs. High tide did
not overlap the low last
night. (It would have had to
be 10-20 cm higher).

Chris Pappalt, John Moss
of Water Long Ferry.

Barbering felt Moss given
2-5 pm except Tues.

I left excavator at 0920
after doing photos with
64 ASA film (the first
photos with this film)

Bar was opened at
c 4.00 pm (± 5 mins)
Water flowed out strongly.
John Moss asked

9m, 14m, 12m wide
and "2ft deep"

52

We left her at 5.00 pm

These Estuary plants for
needs + 0.01 m and

$$r = 0.02 \frac{\text{yr}}{\text{yr}}$$

at 5.07 pm

The ^{bright} green spot above in N
being next to pharynx is
now the full length of
the gaster - at least 15
mm wide at N end and
5 mm wide at S end.

Light - moderate SW wind blowing

Large fish flying over 15-30
in numbers of the gates.

After lunch out

15 con just milking in
cave (verruca) on
downstream side of gully
between gully 1 and 2.

Met Jeff Bost for hours
of peace.

5.33 pm called in at
property.

~~Sat 3 Jan 1998~~
~~1997~~

Vasee eating phodgetus gage
needs + a/bi in Vat 0645 hr.

Time - Forest 28°C today
- 8m. No wind.

Bar was actually opened yesterday. Low tide this morning $\Rightarrow$ level in Inlet now significantly lower than on upstream side of gates.

First trickle of water trickling out from the gates.

Some small slugs visible on downstream side of gates.

For first time, aquatic insects on downstream side of gates.

For first time, can see small fish on downstream side of gates.

Higher fish already very visible 15-80 in downstream (just moving in shoals)

Some gathering of small
fish at surface 5-30+ m
upstream of gake.

gake 4	52cm	0655 hr
gake 7-8	54cm	
gake 11	56cm	0658

Light bloom on upstream side
in dark, dull brown.

No sign of bright green

bloom of yesterday!

(except for narrow band with
clumped segments in it by

(56)

as in previous ^{few} days)
Slightly less buoyant
against the gates.

There were 4 boats about
5-10 m upstream of the
gates when I arrived.
more Right Home under way.

There is a float of 30+
rafts fully 2 ft apart
up at the port bend
(0708 hrs).

0714 hrs at mouth
of Estuary. Inlet
Water flowing steadily out

(57)

Thou channel dry yesterday

Can now see the bottom
of channel clearly. (improved
when flushing out yesterday)

The shallowest part of the
dry channel is at the
south end where it joins
the river. Here it is
scarcely 1 ft deep in the
middle (by eye)

At 0725 have look photo
(No. 1 of P.O. post just before)
of the channel from a

small grassy point to S. & E.

- looking N ^{thru} dry channel to
see. River 2 miles

from top of Sand-pile

(58)

on E side - finished
Hose by 0730 hrs.

Sun 4/1/99

Went to long pier

- arrived at 0645 hrs.

1. Found dark grey
at water edge on
downstream side of gates - N
shore - tide low.

Large mass of 0.01 m
arrived at 0647 hrs.

Water just barely out
(low tide)

man
- A dark (1-3 cm) shape
stone - 1/2 m
at bottom edge on downstream
side of gates

Also some small pits
on dorsum etc.

2 specimens in exposed
structure dorsum of gills.

Occasional large pit flapping dorsum

Chopped regions on right side has
been "pinned inward" by hole
tearing - but right

Flower on right side is a
dark small slightly pinnate brown

Small pit evenly region of gills

(60)

June 4	48cm	0654
June 7-8	56cm	
June 11	58cm	0656

The green bloom of previous days
now almost gone - band
≤ 0.5m wide throughout is
Puffball along some is a
bag.

Wormy under month at

0705 - 0716 hrs.

Took 1 ^(Plate 4) photo of mouth
of Channel from top of
mouth on E side

(Photo 5)

(61)

End 1st from yesterday's
operation

At 0721 hrs water (tide) is
flowing out thru channel.

Mon 5 Jan 1978

Vessel taking photographs at
0646 hrs.

reads ~~0.01~~ - 0.01 m read.

gale 4	54 cm	0648 hrs
gale 7-8	55 cm	
gale 11	56 cm	0651

(62)

Forest
Tree - x/100 body
Light - constant E wind

Blow on upper side with
dark cloud ^{grayish} brown.

Now like chopped algae
along fringes. Some
still scattered near
jagged S end and in
bay at N end.

Many straps (1-3 cm) on
downward side of jelly.

Slight drizzle of water out
Can't see any scale fish
on downward side.

Occasionally ^{large} fish flipping out

15+ m. downstream.

Can't see any fish activity
on upstream side of floodgates.

No dead, dying, sick fish
anywhere.

1 Duck feeding 60 m upstream.

15+ eggs in a small water
sewer 100 m upstream of
the gates.

The green bloom in the seagrass
in the north bay has now
completely disappeared.

1 Mottled Horned O'keefe.

(^{1st} road
over floodgates) at 0705 hrs.

(64)

Brown

Blowdown still present on
downside of floatgates.

0710 hrs - blowing
Tide gauge - Tide is
flowing out from the
channel.

Take three plates (grabs)
- Nos 6-8. From
top of sand heap; then from
grassy bank, then of gas
bubbles.

0724 hrs there are
several dead & dying
whitebait (?) at the
further end of the channel.

(65)

There is a lot of gas
bubbling up into the
water column in the inlet.
Walked 300 m of W shore of
Inlet and 150 m of E shore.
Collected freshly dead fish (14 fish)
c 5 at mouth, c 8 along E shore
and 1 along W shore. Largest
60 mm, shortest 26 mm.

(109)
At 0750 took a photo
of the tide now racing into the
Inlet!

(66)

Wak 1 1 - 1000

20

Bay
1 ~~Bay~~



4	41
5	41
6	40
7	38
8	38
9	38
10	39
11	40
12	41
13	42
14	42

(66)

Water level on page
was $+0.02\text{ m (TMS)}$

Bay		
1	1	39 cm
	2	40
	3	41
	4	41
	5	41
	6	40
	7	38
	8	38
	9	38
	10	39
	11	40
	12	41
	13	42
	14	42

(67)

Top of sill reading
was 425.1 (at Bay 2)

and the 0.00 on gauge
board was 388.2

$$\begin{array}{r} 425.1 \\ 388.2 \\ \hline 36.9 \end{array}$$

Reading onto top of
bolt on deck at S
end of pier
was 177.0 cm

The height of this bolt
to ~~ADD~~ is ~~177.0~~

A. I will then from Alan Clark

(68)

~~062~~ 5/1/98 cont'd
6.20 pm - tide is
pulling out from channel
in marshes at mouth
of Winyaw Bay

~~063~~

Thurs 6/1/98

0637 hrs

Wine Bay phragmites

Gauge reads ~~0.015~~ ~~0.015~~

— 0.015 m ASD

Slight bubble of water under

Time - probably no wind.
 Forecast temp for Ben today
 is 36°C

- Thom on hypochlorous side is
 dark shell brown colour
 as before.
- Chopped seepers 1.5 m wide
 along plunger (hypochlorous
 side) - some near gage
 and by at South end.
- 1 person fishing 50 m
 hypochlorous and some with fish
- Many small ships on downer
 side.
- slight seaway on
 surface at edge of
 seagrass in N bay.

(7-0)

bag 7	50cm	0668
bags 7-8	48cm	
bag 11	48cm	0652

- Some small fish study
middle 5' in region
of phragmites (introduce &
sharks)
- some larger fish study
(all around phragmites) 20' in
downstream

(74)

~~8~~

Birds in area 0-250 m by stream

80+ pelicans of 2 species
flankers

44+ WPH

7+ Great Egret

2+ Little Egret

3+ Sca I

4+ Yb Sparrow

Goshawk, LPE,

Long fringed grass
wrens - 0.14 m at

0723 hrs on 6 Jan 98

(72)

6/1/82 contd.

Verse along plantations from
3.30 to 3.45 pm.

Hot Dry

Large (20 cm) fish
trying to get out - there
were 8-11 ^{some} actually
jumping against banks!

Water in. Water level
higher on outer side &
water bulging in.

Box at mouth of Whangaiti
- water flowing in
at 3.59 pm.

school of 1000's of
fish c 5-8 cm

Stays out into ocean
 Mostly near surface and
 not going fast.
 Hand video

5.09 pm - tide
 was still flowing in

5.15 pm - ^{Very many} checked flippers
 gain - ^{large} 1st still trying
 to get out - one snub
 + dead.

Very many flippers at
 0646 hr on Wed 7/1/58
 gauge reads - 0.04 m
 Slight bubble out

(74)

Fine, v. light SE
breeze. Forecast for Sun
today to 38°C.

July 4	45cm	0649 hrs
July 7-8	40cm	
July 11	38cm	0654 hrs

Many small slugs (1-3cm)
on Columbia side of
floodgate for 7 + meters.

None

Just sandy near surface

until 25' - 100' + m

downstream.

• Some signs of large fish
 moving beneath surface
 on right-hand side also.
 (movement rapid & strong)

• To right of strongly marked
 the fish are quite feebly
 (right side) as per yesterday's
 afternoon.

• Clipped region A - 4
 no signs of phryganea

• One dead fish stuck on right
 side of phryganea (from
 yesterday)

• Flown on right-hand side
 still dark dull brown

(76)

• Duff bucket ^{feeding} over ^{at}
inner edge 25 m upshore
(at side) of ploughed area - (also
1 white)

• a few reds and a few
blue damselflies over the
clipped vegetation on upshore
side of first time I
have noticed them)

• There is green algal scum
on surface 2 m wide
and 15 m long in by on
NE side of ploughed
(leeward shore)

(46)

• Difficult to see ^{feeding} at
water edge 25 m upriver
(at side) of floodgate (also
at 100 m).

• a few fish but a few
blue characins over the
shaded region in water
side (first time I
have noticed them)

• There is green algal scum
on concrete 2 m wide
and 15 m long in bay on
NE side of floodgate
(downstream)

Mouth of Wharfedale Inlet
from 0718 - 0725 L.

- cat still open

Took photos 13 + 14.

Smelled gas bubble at
under ridge - rather big,
smaller bubbles coming
from gas source.

Saw only one small (c 4 in)
dark fish - in view
of good bubbles
"whitehead"

Fish looking out strongly.

(78)

Boat sailing at Esbjerg
Drove at 0735 hrs
on Wed 7/1/48

Counted 168 islands exposed
Many of these are exposed
by c 10 cm.

(water level is ~~at~~ - 0.04m)

Boat sailing from
at 1300 - 1220 hrs
on Wed 7/1/48

Time 1405, x by N.W.
and (in trough)

Water level of the
gates is, in places, rising
with schools of fish
swims fast & apparently

79

partly - partially
 partially in closed
 network in small bag
 - ~~partially~~^{young} feeding on
 very available in the
 system.
 - road by hand for most
 in phylloids.

— onto hillside ~~to~~ and
then ~~plunged~~ from
1200 — 1220 hrs.

Mouth of Inlet at 1230 hrs
— well open — like flowing
in.

(80)

House along floodgates

5:38 - 5:55 pm 7/1/98

5 deer paths

100% of 25 cm mullet
at N end of structure drying
to get out - stream - see
rivers.

Water level - fast

3 Turtles on old
sinking bridge structure!

(81)

Vespa Eschig phragmites at
0637 hrs on 8/1/98
gerge nests - 0.02 m
(M)

dy 2 -
Moderate SW wind

5 dead

Shell brown effect then -
upside out.

0715 Swamp Sparrow
movement - strong SW wind
two flying out! those
cleared.

82

4.30 pm on Thurs 8/1/98
at Vesse using phosgate
fry needs ~~4~~ exactly
0.00 m AHD in

- moderate SW ~~very~~ wind
blowing.

V. slight in out. No
fishes going to get out
(or in).

2 Dorkis, 1 LBC, 1 APL
feeding on upstream side
of gates.

4.39 pm water flowing in
strongly then cut in sandbar
at mouth of Linnings Inlet.

Vespe Esby flapjacks
at 0645 hrs on Fri 9
Jan 1998.

2 Tiddler	low
5 Greenback	high

(Pigeon nests - 0.04 in sand
Fine, light S (?)
wind.

Water levelly out at first rate
Party 2 dead fish visible on
upstream side of gate.

Up stream on upstream side
dark greenish brown.

(84)

Chopped regrass @ - 3 m
graben of gully.

Many small (1-3 cm)
things and some (few)
small fish on bottom
side of gully.

Too much regrass to do
several depths.

& fishing
1 Darter + 1 Pickerel
on downstream side.

At 0712 low water
is flowing out (gully)
from the cut in the

(85)

17 + 8.

Winning when phlogites

- cross Velt 0721 hrs on 9/1/58

21 Gmt Eget

6 Yb Spinel

WFA CSO (counted 36)

~~SK~~ Sact - 2+

S.G. - cc 150

Pelton - 9

Arts & other activities

↙ from new board (metric)

- 0.167 m at 0731 hrs.

$(5ft - 2'8\frac{3}{4}") = + 2ft 3'12"$

~~old board~~ ~~missing~~ (

setback at mouth of
Living Inlet. I
took print plates nos 17+8.

Living Inlet photog. plates

- Error alt 0721 hrs on 9/1/88

21 Gull Egg

6 Yb Spindell

W.H. C50 (counted 36)

~~Sect~~ Sect - 2+

S.G. - cc 150

Peter - 9

Shells & other debris

from new board (metric)

- 0.167 m at 0731 hrs.

(Sfr - 2'8 $\frac{3}{4}$ ") = + 2 ft 3"

~~old board~~ old board reading (

(46)

At ~~0736~~ 0736 hrs water
trickly out of Winings
along the flanges and
also out of the Deadwater

From preceding page

$$2 \text{ ft } 3 \frac{13}{16}'' = 0.706 \text{ m}$$

~~RL~~

Of $2 \text{ ft } 3 \frac{13}{16}''$ equals

RL $102 \text{ ft } 3 \frac{13}{16}''$ inches

$$\text{then } RL 100.00 = -0.167$$

$$-0.706$$

$$= -0.873 \text{ m AHD}$$

1 case strong phlegm
 jaw neck - 0.05 m
 2nd at 0648 hrs
 on Sat 10/1/98

Water looking out first.

Blow on western side is
 a dark dull, slightly
 greenish, "silly" brown
 - Cloudy surface for 3-2 m
 inside of gate.

- some signs of large fish
 along "upstream" side.
- no dead fish on or all.
- many small fish along &
 some small fish on
 downstream side.

1 case along plow
 gray necks - 8.08 m
 20.08 8.00
 on Sat 10/1/98

Water looking out just:

- Brown on western side in
 a dark dull, slightly
 yellowish, "silly" brown.
- Closed surface for 0-2 m
 maximum of water.
- some signs of large fish
 activity throughout side.
- no dead fish on it all.
- many small fish swimming &
 some small fish on
 obvious side.

(88)

some knew but didn't
for the "Bombers" (v.
account of his out).

- Together on old meeting
large shoulder.

- Might have understood
gates

- 1200 party on opposite
side of gates

- Too much reasons for

Dave Buckley