

Printed 16/6/2014.

## Alan Clarke's Field Notebooks

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(Only pages with notes are numbered)

None of these  
have been scanned.

get  


- |     |            |   |
|-----|------------|---|
| 1.  | 1992- 1995 | (12-07-1992/19-10-1995)                                     |
| 2.  | 1995-1996  | (06-11-1995/ <sup>21-11-1996</sup> <del>20-02-1996</del> )* |
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JA/8/2014



23. 2002-2003 (11-11-2002/19-09-2003)
24. 2002-2004 (14-10-03/27-11-03) + (09-03-04/17-06-2004)
25. 2004 (03-08-2004/29-09-2004)
26. 2004-2006 (08-11-2004/19-11-2004) +  
(13-03-2006/09-11-2006)
27. 2005-2006 (05-07-2005/10-02-06)
28. 2006-2007 (14-11-2006/07-11-2007)
29. 2008 (05-03-2008/09-11-2008)
30. 2009 (11-03-2009/04-08-2009)

\*Alan to worked out the pages' order.

115/00  
16/3/01

9 312311 180311  
MADE IN CHINA

EDGEWATER NEWS  
306 778  
2.95



①

MAY 1 mon.

pack equipment  
for trip

may 2  
Repair utility work

May 3  
Repair utility work

2

May 4 ~~THUR~~ THUR

admin accounts  
contin TTD.

clean field gear

FRI  
~~FRI~~ may 5

admin ~~accounts~~ accounts

check maps from 513A

MAY 1 YOLA

back home

MAY 5

MAY 1

③

know & now

know & now

④

Wed 10 may

THUR 11 may

Mon 8 may

Wed 9 may

5

Friday 12 May

Jan 31 Nov 1



9

Tues 16 may  
from 91 SAT

WED 17 may  
day in leave from April  
depth gauge work.

from 91 SAT

WED 17 may

(7)

THUR 18 may

FRI 19 may

8

MON 22 May

TUE 23 May

⑨

Wed 24 may

THUR 25 may

70

Friday 26 may

MON 29 may.

(11)

Tue 30 may

Wed 31 may

8:30 - 11:30

Admin account reactivity  
write up of depth gauge  
maintenance of Northern labors.

11:30 - 7:30

Harvey Dam reactivity project.

(12)

THUR 1/6

7.45 - 2.00

velocity profile of Henry River

2.00 - 4.30

unload which than year.

admin account reconnection

prepare H/R survey data.

FRI 2/6

office duties

Physics till 9.30

~~write safety committee meeting~~

write up depth gauge

memorandum of North ~~Survey~~ ~~Notes~~

(13) 3/7/00  
depart Hammond 6:00am

9:53am Vase Lot, 3/7/00  
(14)

#10

Calibration  
WP-84 TPS read 2.17ppm in 2.0ppk  
TPS standard  
Cal. k = 0.99  
Calibration O.K.

0.1	508ppm	12.8°C
0.2	"	
0.4	"	
0.6	"	
0.8	508ppm	12.9°C

#9 10:20<sup>am</sup>

0.1	5.46 ppk	13.9°C
0.2	5.46	
0.4	5.48	
0.6	5.50	
0.8	6.50 <sup>ppk</sup>	
1.0	7.00 <sup>ppk</sup>	13.9°C



(15)

3/7/00

Vorse.

#8

0.1	5.94	ppk	13.5°C
0.2	6.00		
0.4	6.03		
0.6	6.04		
0.8	6.04	ppk	13.6°C

#7 10.50<sup>am</sup>

0.1	5.68	ppk	12.8°C
0.2	"		
0.4	5.70		
0.6	5.70		12.8°C
0.8	7.30	≈	13.0°C
Bottom	0.9	≈ 7.30	ppk 13.5°C

(16)

3/7/00

Vpro

#16 11:05 am

0.1 5.06 ppK 13.3°C

0.2 5.08

0.4 5.12

0.6 5.16 13.3°C

0.8 " } 5.28 ppK

0.9 " } because I also moving for  
approx. bottom  
fast.

#5

0.1 5.07 ppK 13.5°C

0.2 5.08

0.4 5.19 13.5°C

0.6 5.75 13.7°C

0.8 5.79 13.8°C

0.9 5.90 ppK 13.4°C

17

3/7/00

Vans

#4

0.1 4.23 ppk 13.5°C  
 0.2 4.37 "  
 0.4 4.36 "  
 0.6 4.36 "  
 0.8 4.38 "  
 0.9 4.40 ppk 13.3°C

#3 1154<sub>on</sub>

0.1 4.61 ppk 13.7°C  
 0.2 4.61  
 0.4 4.62  
 0.6 4.65 13.7°C  
 0.8 6.002  
 1.0 6.202 13.8  
 1.25 6.902 ppk 13.8  
 7.24 ppk

(18)

3/7/20

Vase.

#2 12:07

01 4.55 ppk 13.8°C

02 4.55

0.4 "

0.6 "

0.8 4.63 13.7°C

1.0 7.30 ≈ 13.8°C

1.2 ~~7.40~~ ≈ 13.8°C

8.95 ppk

3/7/00

Case

#1	12.30 pm		
	0.1	2.55 ppk	13.7
	0.2	"	
	0.4	"	
	0.6	"	
	0.8	<del>2.70</del> 4.0 ppk	13.6°C
	1.0	8.64	13.8°C
	1.2	9.58	13.9°C
	1.4	11.23	"
	1.6	11.17	14.0°C
	1.8	10.98 ppk.	14.0°C

measured depth 2.3m

limit of probe length.

20

3/7/00

Office duties

until 5:00

shopping

until 5:30.

21

4/7/00

Calibration of WP-84 TPS

WP-84 read 2.00ppK in 2.00ppK TPS STAN.

did not calibrate because  
already reading correctly.

22

4/7/00

Worming

system gets 0.795 @ 9.52cm

#1

13.8

14.1°C

ppK

0.1

0.2 14.4

14.2°C

0.4 14.4

0.6 15.3

14.3°C

0.8 15.6

14.4°C

1.0 16.1

1.2 16.6

14.5°C

1.4 17.2 ppK

23

Worms

4/7/00

#2 10-26 am

01 10-96 ppk. 13.9°C

0.2 "

0.4 "

0.6 "

0.8 "

1.0 11-27 13.9°C

1.2 11-30 ppk 13.9°C

~~#~~



(24)

Wanner

4/7/00

#3

0.1 9.84 ppK 13.9°C  
0.2 9.84  
0.4 9.92  
0.6 9.92  
0.8 9.96  
1.0 9.96  
1.2 9.96 ppK 13.9°C

(25)

4/7/00

W/ann.

#4

0.1 ~~11.14~~ ppk 13.9°C

0.2 11.14

0.4 11.14

0.6 11.14

0.8 11.14

1.0 11.14 13.9°C

1.2 11.14 ppk

(26)

4/7/00

WPAWV

#5 11.19 cmv

0.1 11.94 ppK 13.9°C

0.2 11.94

0.4 11.98

0.6 11.98 13.9°C

0.8 11.98 14.0°C

1.0 11.91 ppK 14.0°C

(27)

Duschnak

4/7/02

#1

14.2°C

0.1 10.9 ppk

~~0.2~~ 24.1

0.4 25.8

0.6 25.9

0.8 26.3

14.2°C

1.0 27.1

14.2°C

1.2 ~~30.0~~ 28.3

1.4 35.2

1.8 44.3

2.0 53.5 ppk

15.0°C

28

Bradwater 4/7/00

#2

0.1 17.1 pp/k 14.2

2.2

7.0

9.0

0.8 17.2 pp/k

1.0

1.2 17.6 pp/k 14.2

(29)

12.28 Deadwater 4/7/00

#3 0.1 29.2 ppk 14.2°

2.62 2.0.

2.62 4.0

4.82 9.0

5.03 3.0

8.03 2.1

9.12 2.1

14.2°

14.1°

14.7°

Ydd 2.5s 4.1

30

Deuterate 4/7/00

#4

0.2 28.1 ppK 14.2°C

0.6 28.6 ppK

1.4 30.7 ppK

1.6

14.4°C

1.8

2.0 48.4 ppK 14.4°C

31

4/7/00

Deadwater

#5

0.1	36.4	ppK	14.3°C
0.2	36.4		
0.4	36.4		
0.6	36.7		
0.8	36.7		
1.0	37.0		
1.2	37.7		14.2°C
1.4	37.5		14.4°C
1.6	45.6	ppK	14.6°C



32

4/7/00

Deadwater

1300 hrs

#6

0.1 39.7 34.8 ppk 14.2°C

0.2 39.7 34.8

0.4 39.7 35.7

0.6 39.5 36.0

0.8 39.0 36.2

1.0 38.7 ~~39.0~~ 37.0

1.2 38.0 38.0

1.4 38.4 38.2 14.2°C

1.6 41.3 14.4°C

1.8 41.7 14.5°C

2.0 48.5 ppk 14.7°C

(33)

4/7/00

Deadwater

#7

0.2 36.0  $\approx$  ppK 14.1  $^{\circ}$ C

1.0 36.0  $\approx$  ppK

2.0 41.0  $\approx$  ppK 14.4  $^{\circ}$ C

WP.84 read 31.2 ppK in 36.0 ppK TPS  
SPAN.

(34)

Pull inlet 7/12/00

Depart Lumsden 0630

depart new Traffic bridge

9:15 AM

swamp began Half day  
no swans.

SW wind 10 knots.

Beadalar island.

est. 220 <sup>are</sup> Pure Petrels of

which <sup>are</sup> ~~is~~ a pair.

seemed to only be roosting

no nesting activity seen.

pull inlet has started

towards east side.

outside Baggly Bay 90

inside Baggly Bay 224

includes 6 x road flange points

with two cables

where

10 ovals just north of Ward  
point.

24 ovals just north of look ramp at  
Falcon

47 ovals near a CALM drawing

sculpture on shore

+ 2 ovals.

36

beam Winch 8:30am 2/2/01

LARLE MINION

10:30am

depth on gauge 2 0.62m  
bring ahead to get No. 2 gauge  
cut

when we come to do surge DGPS  
RTK

HINDS

$H_m = 0.081$

ground

A  $2.114 = -2.033$

top of gauge B  $0.874 = -0.793$

$4.00 - 0.793 = 3.207 \text{ m}$

3m gauge installed

\* depth 2.18m (2.18)

No. 3 gauge (3m) is  $156^\circ$

leaning of from gauge 2.

gauges 1, 2, + 3 area all inline and approx. 55m from gauge

2. 530 45.667

£116 32.961

456871£

6596785 N

car mufflers Bunnings

tea

run vacuum

rice

paper towel

tin corn

tin beans

tin spray

rutab

apples

bananas

tomato

cheese

date

urial

jelly beans

(39)

12/2/01

Start circumlance 6:30am

broke GPS transferred to

Goosywing

navigated to site one on

WB584 no deep point found.

site 2 wrong 150km south.

navigated to GDA94 sound hole

100m to the N/E installed gony

and leveled back to 13pm.

• leveled to transects 1+2 time

taken to level 500+150m

was 62 minutes. leveled to

transect 3.



(40)

12/2/01

Mike Deane lake informed me in season  
top of mgh. 1.4717

1.472

The wrong plan.

93715448

MIKE GORDON

moved gauge 100 m to the N.E.  
put Blue sign on road side  
to indicate BM on lake  
edge.

lake Height of BM  $\approx 1.3$  --  
traveled to Larrain.

Finished at 7:40 pm. Stayed  
at Woban Hill

NISSAN 450 km ODO

(41)

Buy a **Buddy** for  
methyl Lewis in the  
reefage batteries in the  
morning

check in in the morning

(42)

13/2/01

Start 7.30.

Kendwin lake

water datum (2m) found at edge of  
~~lake~~ lake depth from datum

was 2.03m

no number on datum cement top

only. Gauge was not visible  
ground (lake bed) was very

soft. Probable that gauge was  
pushed over. Need to return in

a year to find gauge and level  
to CARM and Data stations.

Data BM installed on east edge of  
road and levelled to CARM

datum.

13/2/01

Wardath

replaced plastic gauge. it  
had cracked at the base

with 0.4 wire ties had

broken off and bottom 400mm

was sagging about

20cm BPM installed up slope

from gauge.

a 1m gauge was now put

in because this take is used

as a the take.

take is very flat with 10cm rise

0.5-1m water depths will only be

a few metres from the gauge.

Spooled up at Comstock  
Model 727 15m @ 103.0kz

Fraser's Lake

Top of graph = 1.456m  
installed a 1m gauge in the  
lake depth at new gauge 2  
(1m gauge) was 0.61m.

dam. installed a DOW  
BPM with RMs

(48)

Traveled to Dominion Lake  
looked for evidence of a  
depth gauge or DOLA BM  
datum. Evidence of an old gauge  
mark (stamp) was found.  
a fence line was located  
in the direction of was the  
gauge would have faced.  
on the corner of the fence (near  
the road) an old DOLA  
datum was located. This datum  
was located to a nearby (200m)  
existing DOLA BM on the side  
of the road.  
Wongan Hills 6:45 pm.  
OD. 867 Km

14/02/01

7:30am

## Blue Gum

top of angle. 2.593 (gauge 1)  
 removed gauge 1 from tree  
 and installed a new gauge 1  
 at 2m high

Settled bolts to bottom  $\frac{2}{3}$   
 of gauge 2 which were under  
 water on installation in May  
 2000.

connected both new transmits  
 to 1m gauge. The 4m gauge and  
 2m gauge were transferred to

(47)

from previous.

The surveying required  
to pick up the transects  
at Blue Green took 30 min.

(48)

14/02/01

to Dola BM

travel to Maona, picked up  
TICK traps and TESTRA oil.

travelling to Lake Gyroly.

surveyed lake for depth

of point. fairly flat lake

Half lake covered with water

on west side. Strong SE wind

25-30K knots. water depth in

depth point 3cm. installed a

1m gauge using two angle irons

because the ground was soft.

gauge read 0.03 m.

Dola BM with RM's rods

(219)

10/22/01

installed. The 10 gauge light  
was transferred to the BM  
and the dropper used for  
precise measurements was  
given a label height.

Travel to Maraura Pub  
Finish 6:00 pm.



80

15/02/01

Start 7.30

Truck to Helikawa

top of angle 2. ~~2~~ 341

surveyed level for clearest  
point. placed 1m gauge no. 3  
at deepest point.

installed BM at average high  
water mark = 2.2m. 2m gauge

placed a few metres down  
slope inline with BM and gauge <sup>(1m)</sup> 3

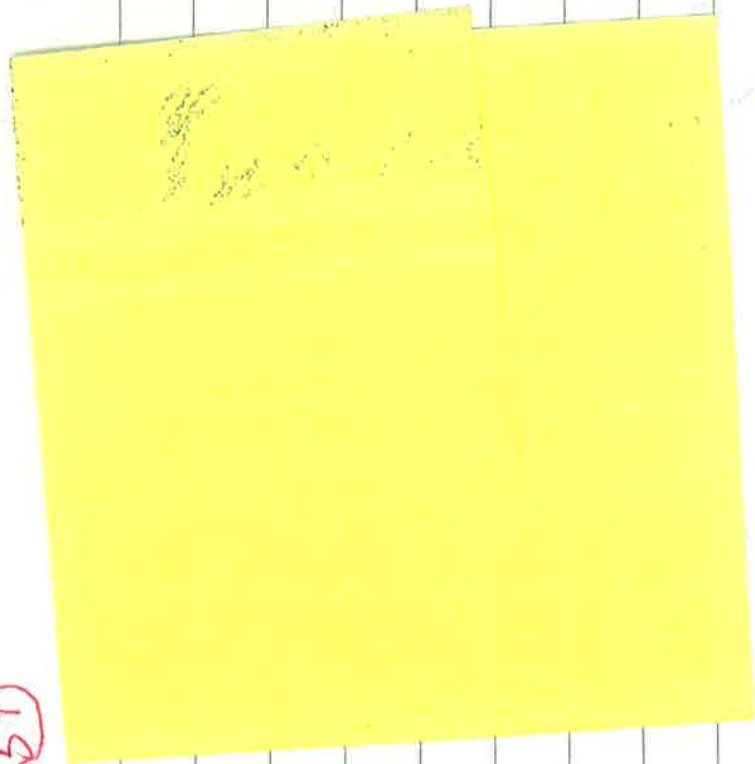
lake was dry. placed a 4m

gauge 20m down slope to the

SW from water tank.

travelling back to Perth

finish 1700hrs.



gear to Wengen Hills

tripod

G clamps

drill

rod bases.

Blue gaffa tape from home.

GPS

Ropes

grease for arge

arge tool box.

Mobile phone.

maps of lake.

clipboard.

Eschi + Enghk.

depth plate x 4

shovel

remove NINTON Imgang

replace plates at Waldgammung

unpack brass.

rain coat

pick up shoes.

(53)

Wendy Burt's  
96711997

(54)

13/3/01

depart ~~wood~~ Currambine

7:00 am

meet Mike Gordon 9:00 am

Wangan Hills Pub/Shekin.  
Lunch

proceeded to Lake Hards.

9 set up orange lubricator chains

packed equipment in orange.

set up antenna on roof of patrol

using 5 m staff, tripod, and tie  
down straps.

My Global Map 100 was within

30-3 metres off SSM words.

began picking up easting lines

every 200 m and recording

(55)

13/3/01

4 points along the profile

① 1 point on the seaward  
end near where the boat  
was able to reach. 1 point  
at the next change of  
slope one point at the  
flood line and one point  
0.5 → 1.00 meters above the

flood point.

500m west of SSM the

engine stopped and smoke (white)  
sawny smell came out.

a wave had washed loose  
and had started the machinery

56

13/3/01

drove into see farmer to check  
if we could drive onto his  
paddock to retrieve cage.  
took cage to Wanganui 10:50  
Electrician he replaced  
the burnt wires. Note  
that the battery is not  
charging needs a new part  
see invoice for description  
total cost = \$150  
The battery is not charging.  
back to pump at 4:30  
left 5:36 back to Auto elect.  
Jenix 6:30

(57)

14/3/01

458200 north

radio link down  
profile } cliff

moved up to 459200  
from 458200.

Started east side transects  
at 6596010 N. 1052 hrs

shot No. 1554 taken on top of  
ridge on edge of creek.  
ingham creek. RP 8m east is  
2m lower 1554 in creek.

(58)

W

14/3/01

shot 1555 top of ridge creek

Rk 3m below at 10m east.

~~100~~

crossed creek at 459817

6593000

had lunch on creek. 2:00<sup>pm</sup>

-2:30<sup>pm</sup>.

shot No. 1564 east side of creek.

Bottoms flat 3:20<sup>pm</sup> →

459695

position

next to de 6592600 N.

this line/profile

(59)

(60)

14/3/01

PM

Flat tyres middle and front  
on left hand side, moved  
front left to middle right  
and vice versa. Noted engine  
was very hot on red line.

2 GPS Batteries flat at 3:20  
limp around west side  
back to base station.

argo would not start, we  
had to wrench it into the trailer  
replaced 2 flat tyres with the  
spares. trailer lead to  
Wangan Hills, recharged battery  
in argo and cleaned air filter  
Jambled at 7:00 pm.

M

MIKE GORDON

0408802144



(19)

15/3/01

start 6:20 am.

check battery - unhook charger.

fit foam (now clean) filter

pack up arys and with gear

6:45 - 7:15 breakfast.

travel to Herods

set up arrival. set up arys →  
refuel.

start arys up 9:30 proceed  
to take photos.

Northings 6595800

1400

5050

4600

(62)

on North east side of lake  
and finished 5 Joints  
Finished GPS work at  
Base station at 7:00pm  
Unpacked GPS equipment  
including aerial, parked  
up cargo.  
Wangan Hills 8:00pm.

(63)

Finish off earthing  
456900 above ground RD.  
near Juncu 1st only.  
morning tea 11:20-11:40  
457400 need high side being  
600  
800  
Nothing in south West end of lake  
6592660 sheets taken to  
water.  
lunch and change repeater battery  
start 1:34 pm  
Finish lunch 2:10pm.  
Finish off west side top of profiles  
and set up a repeater

(64)

WQ  
12455

96711022

(65)

16/3/01

Start 6.15 pack up gear

organise equip.

breakfast 7.00-7.30

travel to Ninian set up

arrive on my vehicle and cargo  
and leave station.

Start survey of ponds at

9.00 am ~~at 9.00 am~~

and proceed to first survey.

on the north side of the

Ponds. The mud was too

soft to cross or venture

any far out in to for the

(66)

majority of the Pandoraea.

Morning tea 10.25 - 10.50

Finish at Leam station 12.48.

Travel back to Wangan

Hills to pick up two

more types (large.)

Traveled back to Woodvale  
arrive 4:30 pm

Problems with GPS coverage  
early in the morning in the  
Stables were low on the horizon.  
Most problems were from disturbed  
radio signals from the base  
station, would not read a signal  
around corner of wellbore or  
through stand timber across  
the wetlands or in low spots  
around the wellhead. Repetition  
was the answer. Time consuming  
to setup and have to come

Back at get down, also used  
another battery although the  
repair done not use much  
power, the restriction to  
the GPS time was battery life.  
Need to organize with  
contractors to ensure they  
provide batteries life for  
a long day.

69

Loonie base  
Yasmin Bekt  
Karen Kingdon  
Jenny always

93714408

S+A  
8412 46  
9444000